



Cantt. Public Education System
A New Frontier in Learning
Summer Vacations Homework 2020
Class: XI

Dear Students,

We hope that you and your families are keeping well during ongoing health crises. It is more and more likely that schools may not open till August 2020. Therefore, we are pleased to share our plans for online instructions and homework activities.

As of 1st June 20, we will be starting a robust, interactive teaching program. The curriculum will be taught through various online platforms, video lectures and live interaction with teachers as well as carefully designed homework, which all students will complete at their own time. We shall pursue following time table:-

Beloved scholars, home work for following subjects has been included in this: booklet

Group	Days	Timings	Subjects	Remarks
I	Monday – Day 1 Tuesday – Day 2 Wednesday – Day 3	0900 – 0940	Computer/ Biology/ Maths	Principals shall ensure availability of subject teachers to students for coaching/clarification of doubts etc
		1000 – 1040	Urdu	
		1100 – 1140	Chemistry	
		1200 -1240	P Studies	
II	Thursday - Day 4 Friday – Day 5 Saturday – Day 6	0900 – 0940	Physics	
		1000 – 1040	English	
		1100 – 1140	GK	
		1200 -1240	Islamiat	

Ser	Subject	Pages	
		From	To
1	English	04	25
2	Mathematics	26	33
3	Biology	34	52
4	Physics	53	74
5	Chemistry	75	97
5	Computer	98	124
6	Islamiat	125	133
7	Urdu	134	139
8	General Knowledge	140	187

Our main objective is to keep you in touch with your studies rather than to put you under unjustified burden. Therefore, a pragmatic program has been planned for your educational progression. Stay home, stay safe and stay connected with your studies.

Regards,

Dear students
The assignment carries 10 marks per subject.

SUMMER VACATIONS HOMEWORK 2020

CLASS: XI (FEDERAL BOARD)

SUBJECT: ENGLISH

REFERENCE BOOK

**Federal English Grammar &
Composition**

1. Important links for self-study

- a. <https://www.slideshare.net/mobile/eblast2735/genres-of-literature-63130458>
- b. <https://www.slideshare.net/mobile/JanessaMaeDalimocon2/literary-devices-109593836>
- c. <https://www.slideshare.net/mobile/elfaoz/introduction-to-linguistic>

2. Check your knowledge about literature.

- a. Name the different genres of literature.
- b. How can you relate literature with that of life?
- c. Have you ever read fiction?
- d. Which is your all time favourite fiction?
- e. Who is your favourite author?
- f. What is sonnet?
- g. Name 2 tragedies of Shakespeare.

ENGLISH Week 8

Day 1 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 3	<u>Changing Attitudes</u> 3.2 The way it was(Reading Comprehension) pg. no. 87-96 Grammar: Interjection Read chapter thoroughly to attempt exercise given below. https://www.bing.com/videos/search?q=the+way+it+was+and+is+lesson+by+bill+cosby&docid=608045490639208556&mid=3B3B5052427B831549633B3B5052427B83154963&view=detail&FORM=VIRE	Interjection https://www.hitbullseye.com/Interjections.php

Day 1 - Home Work

LANGUAGE STUDY:

Tense: Refers to the absolute location of an event or action in time, either present or past. It is marked by an inflection of the verb:

- a. Farid walks to school. (Present tense)
- b. Farid walks to school. (Past tense)

* **ASPECT** refers to how an event or action should be performed with respect to time, rather than its actual location in time. We can illustrate this using the following examples:

1. Farid received a bicycle as a gift on his nineteenth birthday. (past simple)
2. Farid has a bicycle. (perfect)
3. Farid is buying a bicycle. (progressive)

* **Each of the following sentences exhibits aspect. Is it a perfect look or a progressive look?**

1. **Farid has bought a new house.**
(A) Perfect (B) Progressive
2. **I think we've already seen this movie already.**
(A) Progressive (B) Perfect
3. **The whole class is going to the theater tonight.**
(A) Progressive (B) Perfective

4. Ali's left his coat in the car.

- (A) Progressive (B) Perfect

5. Saira is leaving today.

- (A) Progressive (B) Perfect

MULTIPLE CHOICE QUESTIONS: (MCQs)

i. Choose the right answer from the given choice:

1. My mission was to _____ past that living room before he caught me.

- (a) Walk (b) fly (c) sneak (d) go

2. I would move my head back and forth in rhythm as I really enjoyed this _____.

- (a) Song (b) music (c) junk (d) poem

3. Turn that _____ down.

- (a) Song (b) Stereo (c) noise (d) music

4. W H Cosby Jr. was born in _____.

- (a) Washington (b) London (c) New York (d) Philadelphia

5. The price was _____.

- (a) High (b) low (c) reasonable (d) surrealistic

6. The volume of that noise is my own _____.

- (a) Mistake (b) choice (c) fault (d) headach

7. You know what would be the end of _____ music.

- (a) Loud (b) rock (c) pop (d) classical

8. You can see that I married above my _____.

- (a) Status (b) caliber (c) love (d) IQ

9. He can give _____ fives until his palm bleeds.

- (a) Fast (b) full (c) high (d) all

10. I know I don't sound _____ talking like that.

- (a) Happy (b) wise (c) angry (d) fool

ii. Answer the following questions.

- 1) Is generation gap the only factor of misunderstanding among family members?
- 2) Why did Cosby pretend to like his daughter's music?
- 1) What was humorous about the way Cosby described the volume of his daughter's music?

Day 2 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 3	3.3The Most Beautiful Flower (Reading Comprehension) pg. no. 97-105 Grammar: Articles Read chapter thoroughly to attempt exercise given below. <ul style="list-style-type: none">https://www.bing.com/videos/search?q=the+most+beautiful+flower+by+cheryl+l.costello-forshey&&view=detail&mid=13796852592391968E8213796852592391968E82&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dthe%2Bmost%2Bbeautiful%2Bflower%2Bby%2Bcheryl%2Bl.costello-	Worksheet Book Work Pg. no. 332 EXERCISE # 1,2 https://www.proprofs.com/quiz-school/storyamp.php?title=english-quiz-articles https://www.slideshare.net/mobile/Yusufzay/articles-48591902

Day 2 - Home Work

Articles

i- **Directions: Fill in the blank with the appropriate article, a, an, or the, or leave the space blank if no article is needed.**

1. I want _____apple from that basket.
2. _____church on the corner is progressive.
3. Miss Lin speaks_____Chinese.
4. I borrowed_____pencil from your pile of pencils and pens.
5. One of the students said, "_____professor is late today."
6. Eli likes to play_____volleyball.
7. I bought_____umbrella to go out in the rain.
8. My daughter is learning to play_____violin at her school.
9. Please give me _____cake that is on the counter.
10. I lived on_____Main Street when I first came to town.
11. Albany is the capital of _____New York State.

12. My husband's family speaks_____Polish.
13. _____apple a day keeps the doctor away.
14. _____ink in my pen is red.
15. Our neighbors have_____cat and_____dog.

ii. Answer the following questions.

- 1) Why is old lady sitting under a willow tree; why not some other tree?
- 2) Write down the central idea of the poem or Context.
- 3) What is the old lady's attitude towards the intruding boy at first?
- 4) How would you describe her attitude towards life before and after the incident?

MULTIPLE CHOICE QUESTIONS: (MCQs)

iii. Choose the right answer from the given choice:

1. The park bench was_____ I sat down to read.
a. vacant b. broken c. dirty d. inserted
2. For the world was intent on dragging me_____.
a. back b. front c. down d. up
3. In his hand was a flower and how painful_____.
a. scene b. flower c. sight d. weed
4. And then I helped that _____ flower up to my nose
a. fresh b. wilted c. withered d. beautiful
5. How did he know of my self-indulged_____.
a. problem b. sorrow c. loneliness d. plight
6. I heard my voice quiver; tear shone in _____.
a. My eyes b. the sun c. his eyes d. the light

Day 3 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 4	<u>ACQUIRING VALUES:</u> 4.1The Scholarship Jacket (Reading Comprehension) pg. no. 98-106 Grammar: present progressive pg. no 343 https://www.slideshare.net/search/slideshow?searchfrom=header&q=present+continuous&ud=any&ft=all&lang=**&sort= https://www.goodreads.com/book/show/36169838-the-scholarship-jacket	<u>Worksheet</u> Book Work Pg. no. 343, 345 EXERCISE # 8,9 https://www.slideshare.net/search/slideshow?searchfrom=header&q=present+continuous&ud=any&ft=all&lang=**&sort=

Day 3 - Home Work

Present Progressive Exercise

i. Read the following sentences and change the tenses as per the given directions.

1. I will be writing my exam this time tomorrow. (Change into present Continuous)
2. He will be waiting for us. (Change into present Continuous)
3. I know this. (Change into present Continuous negative)
4. He will have thought about this. (Change into present Continuous)
5. He wanted to know more about the job. (Change into present Continuous interrogative)
6. I was leaving for England. (Change into present Continuous)
7. She hadn't thought about that. (Change into present Continuous negative)
8. He will not accept this proposal. (Change into present Continuous negative)
9. He will not pass the test. (Change into present Continuous interrogative)
10. I always wanted to be a scientist. (Change into present Continuous negative)

ii. **Answer the following questions.**

- 1) What happened when Martha told the Principal what her grandfather had said?
- 2) What was the change in policy regarding the award of the scholarship Jacket?
- 3) Why could not Martha part in sports at school?
- 4) Why did Martha expected that she would win the scholarship Jacket that year?
- 5) What do you think of Mrtha as a student?

ENGLISH Week 9

Day 1 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 4	<p>4.2 A Long Walk Home (Reading Comprehension) pg. no. 107--121 Grammar: Conditional Sentence</p> <p>https://www.bing.com/videos/search?q=a+long+walk+home+by+jason+bocarro&docid=608023899861943605&mid=23C8280EB357D4566E7F23C8280EB357D4566E7F&view=detail&FORM=VIRE</p> <p>Read chapter thoroughly to attempt exercise given below.</p>	<p>Conditional Sentence</p> <p>Worksheet Book Work Pg. no. 369 EXERCISE # 2 https://www.englishgrammar.org/?s=conditional+sentences</p>

Day 1 - Home Work

i- **Rewrite each conditional sentence in the other two types:**

EXAMPLE:

If you invite him, he will come,

If you invite him, he will come.

If you had invited him, he would have come.

- 1- If he came to me, I would help him.
- 2- If I have time, I will do the job.
- 3- If you come here, you will feel at home.
- 4- I'll arrange everything if you write to me.
- 5- He would have got the job if I had applied for it.
- 6- If you won the scholarship, your parents would be happy.
- 7- He would finish the work if it didn't rain.
- 8- What would you do if you didn't get the money?
- 9- If he had called me, I would have helped him.
- 10- I wouldn't have finished the job if you hadn't helped me.

• **MULTIPLE CHOICE QUESTIONS:** (MCQs)

ii- Choose the right answer from the given choice:

1. The word feeble means_____ .

- a. story b. weak c. guilt d. to plead

2. Mijas was about_____ miles away.

- a. 18 b. 16 c. 19 d.17

3. I was_____ O'clock and I was two hours later.

- a.4 b.7 c.6 d.8

4. I have never _____ to him since.

- a. talked b. met c. lied d. called

5. I drove dad into Mijas and promised to pick him up at_____ p.m.

- a. 2 b. 4 c. 6 d. 7

iii. Answer the following questions.

- 1) Why did Jason father decide to walk the 18 miles back home?
- 2) Why did his father say that he was energy with himself not with Jason?
- 3) What was the most distressing and painful experience for Jason?
- 4) Why did Jason readily to his father to drive him to Mijas?

Day 2 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 4	<p>4.3 Be The Best Of Whatever You Are (Reading Comprehension) pg. no. 127--133 Grammar: Active Passive</p> <p>https://www.bing.com/videos/search?q=be+the+best+of+whatever+you+are+by+douglas+malloch&docid=608023337210874489&mid=014E09717F377795DDD4014E09717F377795DDD4&view=detail&FORM=VIRE</p> <p>Read chapter thoroughly to attempt exercise given below</p>	<p><u>Worksheet</u> Active Passive pg no 379 Exercise # 1,3</p>

Day 2 - Home Work:

I- MULTIPLE CHOICE QUESTIONS: (MCQs)

* Choose the right answer from the given choice:

- 1. I need 5000 _____ flies.**
a. flying b. living c. trained d. dead
- 2. They can't _____ until he says ok.**
a. leaves b. fly c. move d. crawl
- 3. I began to _____ count the last few.**
a. dramatically b. carefully c. immediately d. cautiously
- 4. They looked from the flies to _____ .**
a. the sage b. capsule c. me d. each other
- 5. I have only got _____ flies just enough for two shot.**
a. 5000 b. 1000 c. 5042 d. 1042

II. Answer the following questions.

- 1) What was Mr. Helfer asked to do?
- 2) What plan did he develop?
- 3) What happened at the shoot?
- 4) How did the director and the crew react?

Day 3 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 5	<p><u>THE LIGHTER SIDE:</u> 5.1 Fly Away (Reading Comprehension) pg. no. 134--144</p> <p>Grammar: Active Passive</p> <p>https://www.bing.com/videos/search?q=fly+away+by+ralph+helfer&&view=detail&mid=0A4C080B712E8C481D3B0A4C080B712E8C481D3B&rvs=mid=55C97C598D2EBB7812D355C97C598D2EBB7812D3&FORM=VDRVRV</p> <p>Read chapter thoroughly to attempt exercise given below</p>	<p><u>Worksheet</u></p> <p>Active Passive pg. no. 379 Exercise # 1,3</p> <p>https://examples.yourdictionary.com/examples-of-active-and-passive-voice.html</p>

Day 3 - Home Work:

Exercise

Identify the following sentences as active sentences or passive sentences:

- 1- They started the work two days ago. **ACTIVE**
- 2- The poem was written by Sophia. **PASSIVE**
- 3- The food was eaten by the guests. _____
- 4- Mini opened the door. _____
- 5- One of the girls swept the floor. _____
- 6- The letter was posted by Maria. _____
- 7- The report was typed by Jessie. _____
- 8- The principal has not signed the letter. _____
- 9- Have they invited you to the party? _____
- 10- Paradise Lost "was written by Milton. _____

Exercise : **Change into passive:**

Examples:

a) A boy carried the luggage.

The luggage was carried by a boy,

b) A woman is cleaning the windows.

The windows are being cleaned by a woman.

- 1- The President inaugurated the function.
- 2- Shakespeare wrote Antony and Cleopatra.
- 3- Everyone admires our principal.
- 4- Columbus discovered America.
- 5- A boy has you helped the old man.
- 6- This experience will change your outlook.
- 7- The Registrar may sign the letter tomorrow
- 8- A woman was sweeping the floor.
- 9- The girl's father submitted the petition.
- 10- A scientist has written the paper.

ENGLISH Week10

Day 1 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 5	<p>5.2 The Man Who Was a Hospital (Reading Comprehension) pg. no. 145—156</p> <p>Grammar: Direct and Indirect</p> <p>https://www.myenglishpages.com/site_php_files/grammar-exercise-reported-speech.php</p> <p>Read chapter thoroughly to attempt exercise given below.</p>	<p>Direct and Indirect</p> <p>Worksheet Book Work Pg. no. 389 EXERCISE # 1</p> <p>https://www.slideshare.net/mobiley/Yuniverse/direct-and-indirect-speech-themed-1</p>

Day 1 - Home Work

i-. Turn the following sentences into indirect speech:

1. John said, 'I am very busy now.'
2. He said, 'The horse has been fed.'
3. 'I know her name and address,' said John.
4. 'German is easy to learn,' she said.
5. He said, 'I am writing letters.'
6. 'It is too late to go out,' Alice said.
7. He said to me, 'I don't believe you.'
8. He says, 'I am glad to be here this evening.'
9. He said to me, 'What are you doing?'
10. 'Where is the post office?' asked the stranger.
11. He said, 'Will you listen to me?'
12. John said to Peter, 'Go away.'
13. She said to me, 'Please wait here till I return.'
14. 'Call the witness,' said the judge.
15. The speaker said, 'Be quiet and listen to my words.'

Day 2 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 5	<p>5.2 The Man Who Was a Hospital (Reading Comprehension) pg. no. 145--156</p> <p>https://www.bing.com/videos/search?q=the+man+who+was+a+hospital+by+jerome+k+jerme&q=PF&cvid=3f2cb98db0e9474da85696d46f2028fa&cc=US&setlang=en-US&plvar=0&ru=%2fsearch%3fq%3dthe%2bman%2bwho%2bwas%2ba%2bhospital%2bby%2bjerome%2bk%2bjjerme%26form%3dEDGEAR%26qs%3dPF%26cvid%3d3f2cb98db0e9474da85696d46f2028fa%26cc%3dUS%26setlang%3den</p> <p>- Read chapter thoroughly to attempt exercise given below.</p>	<p>Worksheet Book Work Pg no 390 EXERCISE # 3</p>

Day 2 - Home Work

- **MULTIPLE CHOICE QUESTIONS:** (MCQs)

i- Choose the right answer from the given choice:

1. Jerome was relieved to find that he had Bright disease only in a _____ form.
a. reformed b. revised c. reshaped d. modified
2. Jerome felt that he had cholera with server _____.
a. complications b. complexities c. implication d. attack
3. Jerome stuck his tongue out as far as ever it would go, he could only see the _____.
a. tip b. edge c. end d. ending
4. Jerome told his medical man how he came to _____ that had not the disease of housemaid's knee.
a. explore b. find c. discover d. know
5. A chemist told Jerome that his being only a chemist _____ him to provide him the things as contained in the prescription.
a. abstained b. refrained c. checked d. hampered

ii. Answer the following questions.

- 1) Describe the writer's visit to the medical man.
- 2) Why did the writer consider himself an important patient for his doctor?
- 3) What did the writer tell his doctor?
- 4) What was the prescription given to him by the doctor?

Day 3 – Overview

Unit	Topic	Activity / Worksheet
Unit 5	<p>5.3 WHEN I AM AN OLD LADY (Reading Comprehension) pg. no. 157—165 https://www.bing.com/videos/search?q=when+i+am+an+old+lady+by+joanne+bailey+baxier&docid=608003515923103963&mid=AABAB95E773CDA99F570AABAB95E773CDA99F570&view=detail&FORM=VIRE</p> <p>Read chapter thoroughly to attempt exercise given below</p>	<p>Worksheet:</p> <p>Book Work Pg. no 161, 162 Stanza 02,04,05,06</p>

Day 3 - Home Work

- **MULTIPLE CHOICE QUESTIONS: (MCQs)**

i- Choose the right answer from the given choice:

1. When I'm An Old Lady , I will live with each _____.
 a. child b. kid c. son d. daughter
2. I want to pay back all the joy they've _____.
 a. given b. taken c. provided d. snatched
3. I will drink from the _____ and then leave it out.
 a.glass b.bottle c.cup d. carton
4. She's so sweet when she's _____.
 a. dancing b. talking c. sleeping d. singing
5. I will cross both eyes just to see if they _____.
 a. watch b. see c. observe d. stick

ii. Answer the following questions.

- 1) Define stanza number 3, 4.
- 2) Write down the Central Idea about " WHEN I AM AN OLD LADY"
- 3) How would you interpret the closing comment of her kids, she's so sweet when she's sleeping"?

ENGLISH Week11

Day 1 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 6	6.1 Finding A Job (Reading Comprehension) pg. no. 166—170 https://www.bing.com/videos/search?q=finding+a+job&&view=detail&list=ZqIKbZdspxBmEA&FORM=VRPPLA&ru=%2Fvideos%2Fsearch%3Fq%3Dfinding%2Ba%2Bjob%26FORM%3DHDRSC3 Read chapter thoroughly to attempt exercise given below.	Worksheet Book Work Pg. no 166- 167 EXERCISE # 1,2

Day 1 - Home Work

- **MULTIPLE CHOICE QUESTIONS:** (MCQs)

i- Choose the right answer from the given choice:

1. I can't seem to find a _____.
a. house b. job c. wife d. work
2. Why did you leave your _____ home
a. home b. office c. last job d. friends
3. Many of the jobs require _____.
a. skills b. qualification c. language skills d. computer skills
4. I suggested joining for a _____ group.
a. net working b. talking c. working d. student
5. A different boss isn't very _____.
a. handsome b. honest c. kind d. attractive

ii. Answer the following questions.

- 1) Why did Asad leave his last job?
- 2) Why does Asad want to buy a new suit for himself?
- 3) What does Farah say when Umer tells her that Asad was buying a new suit?
- 4) Why does Farah say that "Quitting doesn't sound like a wise decision to me these days?"

Day 2 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	<p>Grammar: past progressive pg. no. 353----354</p> <p>https://www.slideshare.net/search/slideshow?searchfrom=header&q=past+continuous&ud=any&ft=all&lang=*&sort=</p>	<p>past progressive <u>Worksheet</u> EXERCISE # 22,23,24</p> <p>https://www.slideshare.net/search/slideshow?searchfrom=header&q=past+continuous&ud=any&ft=all&lang=*&sort=</p>

Day 2 - Home Work

Change into Past Progressive/ Continuous

- 1- He (not save) any money since last year.
- 2- He (not save) any money.
- 3- I (not receive) any amount.
- 4- I (post) the letter.
- 5- I (not read) any novel since my retirement.
- 6- I (not return) the book.
- 7- He (be) playing cricket.
- 8- She (finish) her homework?
- 9- She (be) leaving office.
- 10- He (learn) computer.
- 11-He (pass) his driving test.

Day 3 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 6	6.2 A Stressful job (Reading Comprehension) pg. no. 171—174 https://www.bing.com/videos/search?q=a+stressful+job&&view=detail&mid=ED8193981EDDB72FA61AED8193981EDDB72FA61A&&FORM=VRD GAR&ru=%2Fvideos%2Fsearch%3Fq%3Da%2Bstressful%2Bjob%26FORM%3DHDRSC3 Read chapter thoroughly to attempt exercise given below	<u>Worksheet & learn</u> Book Work Pg no 171, 172 Exercise# 01,02

Day 3 - Home Work

- **MULTIPLE CHOICE QUESTIONS:** (MCQs)

i- Choose the right answer from the given choice:

1. **Would you like to change _____ me.**

- a. house b. job c. position d. work

2. **I have been working _____ the last-three months.**

- a. since b. for c. from d. till

3. **I think you are _____ serious about everything.**

- a.very b. too c.not d. really

ii. **Answer the following questions.**

- 1) Why did Asad find his new job?
- 2) How does Farha know that Asad is making a good salary? When did he tell her?
- 3) What sort of person do you think Asad is?

ENGLISH Week12

Day 1 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 6	Grammar: Punctuation pg. no. 403—419 https://www.bing.com/videos/search?q=punctuation&docid=608047062599797730&mid=960F7915E83E0C4BAC52960F7915E83E0C4BAC52&view=detail&FORM=VIRE	Punctuation Worksheet Book Work Pg no 422- 423 EXERCISE # 1 to 4

Day 1 - Home Work

Punctuate the following sentences:

the box was empty she whirled with 'a gasp as the telephone rang stumbling into the living room she picked up the receiver (**G 2008**).

that a like for us to go to Europe like for 'us to have a cottage on the island like for us to have a nicer apartment nicer furniture nicer clothes a car (**DGK 2012**)

Norma no his face was white she shuddered all right take it easy she said why are you getting so up set its only talk. (**DGK 2012**)

However, I assure you the organization of international Scope (**FSD 2007**)

Day 2 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	Grammar: APPLICATION pg. no. 435_440 https://www.bing.com/videos/search?q=application+writing&&view=detail&mid=F7B345610AB153F58907F7B345610AB153F58907&&FORM=VRD&ru=%2	APPLICATION Worksheet Pg. no. 435,436,438 Learn and understand https://www.bing.com/videos/search?q=application+writing&&view=detail&mid=F7B345610AB153F58907F7B345610AB153F58907&&FORM=VRD&ru=%2

Day 2 - Home Work

- 1- Write an application to the **D.I.G** for taking security measure against terrorist activities in your city.
- 2- Write an application to the **Principal** of your college requesting him/her to re-admit the name in roll.
- 3- Write an application to the **Nazim** of your city about the poor condition of road of the city.

Day 3 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	<p>Grammar: LETTER pg. no. 441_446</p> <p>https://www.bing.com/videos/search?q=letter+format&&view=detail&mid=0F66AC7BF8FAA63EC6310F66AC7BF8FAA63EC631&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dletter%2Bformat%26FORM%3DHDRSC3</p> <p>Learn and understand</p>	<p>LETTER <u>Worksheet</u> Pg no,445,446 Learn and understand</p> <p>https://www.bing.com/videos/search?q=letter+format&&view=detail&mid=0F66AC7BF8FAA63EC6310F66AC7BF8FAA63EC631&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dletter%2Bformat%26FORM%3DHDRSC3</p>

Day 3 - Home Work

1-Write a letter to the **Editor** of a newspaper on rising price of things or inflation.

1-Write a letter to the **Editor** of a newspaper on rising price of things or inflation.

2-Write a letter to the **Editor** of a newspaper protesting against the corruption that prevails in the office.

1-Write a letter to the **Editor** of a newspaper regarding the increasing number of professional beggars in the city.

ENGLISH Week13

Day 1 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	Past paper practice (MCQs)	Work sheet

Day 1 - Home Work

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) In Pakistan, there are almost _____ drug addicts.
A. Two million B. Three million C. Five million D. Ten million
- (ii) Noise pollution is one of the biggest sources of discomfort and nuisance in Pakistan. The underlined word means:
A. Annoyance B. Comfort C. Enjoyment D. Sleeplessness
- (iii) After reading the poem, "Stopping by Woods on a Snowy Evening", we:
A. Feel fed up with life B. Get ready to face the challenges of life
C. Wish to go on a journey D. Wish to sleep for a long time
- (iv) As per custom, the Sultan Ahmad Mosque comprises a Madrassah, a hospice and a/the:
A. Burial chamber B. Cellar C. Gallows D. Tomb of the founder
- (v) The Quaid was a man of strong faith and belief. The underlined word means:
A. Firm faith B. Powerful faith C. Uncertain faith D. Wavering faith
- (vi) The phrase 'rugged and rough path' appeals to our sense of:
A. Hearing B. Smell C. Taste D. Touch
- (vii) He spoke very loudly. The underlined word is an adverb of:
A. Degree B. Frequency C. Manner D. Time
- (viii) The galloping horse scared the child. The underlined word is a/an:
A. Gerund B. Infinitive
C. Present participle D. Past participle

Day 2 – Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	Past paper practice (QUESTIONS)	Work sheet

Day 2 - Home Work

Answer the following Questions?

- 1.) Why did the pagan Arabs threaten the Holy Prophet's P.B.U.H Uncle?
- 2.) How will you define patriotism?
- 3.) What happens when media is allowed to play its role unchecked?
- 4.) What can be the possible solution to our present problems? (Refer to the lesson ' The Quaid's Vision and Pakistan)?
- 5.) How does the interior of the Sultan Ahmad Masjid look?
- 6.) Why do families feel reluctant to take the drug victims to drug rehabilitation centers?
- 7.) How is construction work a cause of noise pollutions? (Noise in the Environment)
- 8.) How did Hazrat Asma (RA) console her grandfather?

Day 3– Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	Past paper practice (TRANSLATIONS)	Work sheet

Day 3 - Home Work

Translate any EIGHT of the following sentences into English:

- | | | | |
|-------|--------------------------------------|--------|-------------------------------------|
| (i) | سورج طلوع ہو رہا ہوگا۔ | (ii) | تم مکان کب خالی کرو گے؟ |
| (iii) | شام سے پہلے مسافر گھر نہیں لوٹا تھا۔ | (iv) | ملزم کو ضمانت پر رہانہ کیا گیا۔ |
| (v) | یہ تبدیلی کیسے لائی گئی؟ | (vi) | بوڑھا آدمی کمرے میں اوگھ رہا تھا۔ |
| (vii) | بچہ بغیر ہرجیت کے ختم ہو چکا ہے۔ | (viii) | آج سخت گرمی ہے۔ |
| (ix) | ہمارے باغ میں بہت سے آم کے درخت تھے۔ | (x) | اب سات بجے ہیں۔ |
| (xi) | وہ صبح سیر کو جائیں گے۔ | (xii) | داوی اتاں نے ہمیں عجیب کہانی سنائی۔ |

SUMMER VACATIONS HOMEWORK 2020

CLASS: XI (FEDERAL BOARD)

SUBJECT: MATHEMATICS

MATHEMATICS WEEK-8

<u>Days</u>	<u>No of Unit</u>	<u>Topic</u>	<u>Activity</u>
<u>1</u> <u>2</u> <u>3</u>	Chapter 6 th	<u>Sequence and series</u> 1) https://youtu.be/2luRv9H9G7A 2) https://youtu.be/EUZsFv6wE6Q 3) https://youtu.be/NcA5BeuP1u4	<u>Book</u> <u>(Ex:6.3,6.4)</u>

Day: 1

Introduction:

- 1) *Arithmetic mean*
- 2) *Arithmetic mean between two given numbers*

Question:

- 1) *If 5,8 are two A.Ms between a and b , find a and b.*
- 2) *Find three A.Ms between 3 and 11.*

Day: 2

Introduction:

- 1) *Arithmetic series*

Question:

- i) Find the sum of 20 terms the series whose rth term is $3r+1$
- ii) Find the sum of all the integral multiples of 3 between 4 and 97

Day: 3

Introduction:

Word problem in AP

Question

- i) The sum of the 6th and 8th terms of an AP is 40 and the product of the 4th and the 7th terms is 220. Find the AP.
- ii) Find four numbers in AP whose sum is 32 and the sum of whose square is 276.
- iii) Obtain the sum of all integers in the first 1000 integers which are neither divisible by 5 nor by 2.
- iv) A man deposit in a bank Rs. 10 in the first month; Rs. 15 in the second month; Rs. 20 in the third month and so on. Find how much he will have deposited in the bank by the 9th month.

Activity

https://www.mathcity.org/files/fsc/fsc_part1/MCQs_Imran/Objective_Ch_6_FSC_part1_imran_1.gif

MATHEMATICS WEEK-9

<u>Days</u>	<u>No of Unit</u>	<u>Topic</u>	<u>Activity</u>
<u>1</u> <u>2</u> <u>3</u>	Chapter 6 th	<u>Sequence and series</u> 1) https://youtu.be/rGykTrsiMZc 2) https://youtu.be/lTjLm1ZHxpw 3) https://youtu.be/o4YkucqWBUw 4) https://youtu.be/-qXFb_39Ing	<u>Book (Ex:6.6, 6.7)</u>

Day: 1

Introduction:

1) Geometric progression (G.P)

Question

- 1) Find the 5th term of GP; 3,6,12,...
- 2) If a,b,c,d are in GP, prove that a-b,b-c,c-d are in GP.

Day: 2

Introduction:

1) Geometric mean

Question:

- 1) If the sum of the four consecutive terms of a GP is 80 and AM of the second and the fourth of them is 30. Find the term.
- 2) Find the GM between -2 and 8.

Day: 3

Introduction:

Find Geometric Mean between two given numbers

Question:

- 1) *Insert four real geometric means between 3 and 96.*
- 2) *If both x and y are positive distinct real numbers, show that the geometric mean between x and y is less than their arithmetic mean.*
- 3) *The AM between two number is 5 and their (positive) GM is 4. Find the numbers.*

Activity Link:

https://www.mathcity.org/files/fsc/fsc_part1/MCQs_Imran/Objective_Ch_6_FSC_part_1_imran_2.gif

MATHEMATICS WEEK-10

<u>Days</u>	<u>No of Unit</u>	<u>Topic</u>	<u>Activity</u>
<u>1</u> <u>2</u> <u>3</u>	<u>Chapter 6th</u>	<u>Sequence and series</u> 1) https://youtu.be/GqbTDG_st_8 2) https://youtu.be/YrPdP7J6TXs 3) https://youtu.be/YrPdP7J6TXs 4) https://youtu.be/1m5HHhSrhRk	<u>Book (Ex:6.8,6.9)</u>

Day: 1

Introduction:

Sum of n terms of a geometric series

Question

Sum to n terms the series

$$r+(1+k)r^2+(1+k+k^2)r^3+\dots$$

Day: 2

Introduction:

The infinite geometric series

- Case 1; if $r < 1$
- Case 2; if $r > 1$
- Case 3; if $r = 1$

Question:

The sum of infinite geometric series is 9 and the sum of the square of its term is $81/5$. Find the series.

Day:3

Introduction:

Word problem on GP

Question:

A man deposits in a bank Rs. 8 in the first year, Rs. 24 in the second year Rs. 72 in the third year and so on. Find the amount he will have deposited in the bank by the fifth year.

Activity Link:

https://www.mathcity.org/files/fsc/fsc_part1/MCQs_Imran/Objective_Ch_6_FSC_part1_imran_3.gif

MATHEMATICS WEEK-11

<u>Days</u>	<u>No of Unit</u>	<u>Topic</u>	<u>Activity</u>
<u>1</u> <u>2</u> <u>3</u>	<u>Chapter 6th</u>	<u>Sequence and series</u> 1) https://youtu.be/IAusNxSaSyY 2) https://youtu.be/mbFaTbI4i0Q 3) https://sabaq.pk/video-page.php?sid=punjab-math-11th-6.10&v=m-9-10-seq-ser16	<u>Book</u> <u>(Ex:6.10,6.11)</u>

Day: 1

Introduction:

- 1) Harmonic progression (HP)
- 2) Harmonic mean

Question

- 1) Find the 9th term of the harmonic progression $1/3, 1/5, 1/7, \dots$

Day: 2

Introduction:

- 1) n harmonic mean between two numbers
- 2) relation between arithmetic, geometric and harmonic mean

Question

- i) If the HM and AM between two numbers are 4 and $9/2$ respectively, find the numbers.
- ii) If a^2, b^2 and c^2 are in AP, show that $a+b, c+a$ and $b+c$ are in HP.

Day: 3

Introduction:

- 1) Sigma notation (or summation notation)
- 2) To find the formulae for the sums

Question

Find the sum to n terms of the series whose nth term is given by $3n^2+n+1$.

MATHEMATICS WEEK-12

<u>Day</u>	<u>No of Unit</u>	<u>Topic</u>	<u>Activity</u>
<u>1</u> <u>2</u> <u>3</u>	<u>Chapter</u> <u>7th</u>	<u>Permutation, combination and probability</u> 1) https://youtu.be/ko_8hfoUtx0 2) https://youtu.be/HOUdld4PFml 3) https://youtu.be/0Nv3xC0-amE 4) https://youtu.be/U7j3uoY78es	<u>Ex # (7.1,7.2)</u>

Day: 1

Introduction:

- 1) Factorial notation
- 2) Permutation

Question

- 1) Write in the factorial form

$$n(n-1)(n-2)$$

- 2) Prove that;

$${}^n P_r = n(n-1)(n-2)\dots(n-r+1) = n!/(n-r)!$$

Day: 2 and 3

Introduction:

- 1) Permutation of things not all different
- 2) *Circular permutation*

Question

- 1) How many three digits numbers can be formed by using each one of the digits 2,3,5,7,9 only once.
- 2) In how many ways can 5 boys and 4 girls be seated on a bench so that the girls and the boys occupy alternative seats?
- 3) How many arrangements of the letters of the word PANAMA can be made , if P is to be the first letter in each arrangement?

Activity Link:

https://www.mathcity.org/files/fsc/fsc_part1/MCQs_Imran/Objective_Ch_7_FSC_part1_imran_1.gif

MATHEMATICS WEEK-13

<u>Day</u>	<u>No of Unit</u>	<u>Topic</u>	<u>Activity</u>
<u>1</u>	<u>Chapter 7th</u>	<u>Permutation , combination and probability</u>	<u>Book</u> <u>(Ex7.4,7.5,7.6)</u>
<u>2</u>		1) https://youtu.be/RhJtJRTq6QE	
<u>3</u>		2) https://youtu.be/1YGy2parnKY 3) https://youtu.be/-tjGeVDnwrM 4) https://sabaq.pk/video-page.php?sid=punjab-math-11th-7.3&v=m-9-10-in-prob8	

Day: 1

Introduction:

- 1) *Combination*
- 2) *Complementary combination*

Question:

Prove that:

$${}^n C_r = {}^n C_{n-r}$$

Day: 2

Introduction

- 1) Probability
- 2) Probability that an event doesn't occur

Question

- 1) Experiment:

A fair coin is tossed three times. It shows

Events happening: i) one tail ii) atleast one head

Day: 3

Introduction

- 1) *Estimating probability and tally marks*

Activity link:

<https://youtu.be/c3-8itMLgDA>

Self Study / Practice

<u>Day</u>	<u>No of Unit</u>	<u>Topic</u>	<u>Activity</u>
<u>1</u>	Chapter 7 th	Permutation , combination and probability	Book (Ex 7.7 , 7.8)
<u>2</u>		1) https://youtu.be/OYXt5_CzvAw	
<u>3</u>		2) https://youtu.be/XhOAq29r_NE 3) https://youtu.be/S2DKLh9SLI4 4) https://youtu.be/rScYSZ8mpdl	

Day: 1

Introduction:

Addition of probability

Question

- 1) A die is thrown twice. What is the probability that the sum of the numbers of dots appearing on them is 4 or 6?
- 2) A card is drawn from a deck of 52 playing cards. What is the probability that it is a diamond card or an ace?

Day: 2

Introduction:

Multiplication of probability

Question

- 1) Determine the probability of getting two heads in two successive tosses of a balanced coin.
- 2) Two dices are thrown twice. what is the probability that the sum of the dots shown in the first throw is 7 and that of the second throw is 11.

Day: 3

Introduction:

- 1) <https://youtu.be/EUhgcecvQE>
- 2) <https://sabaq.pk/video-page.php?sid=punjab-math-11th-7.4&v=m-9-10-more-prob8-prob1>
- 3) <https://sabaq.pk/video-page.php?sid=punjab-math-11th-7.4&v=m-9-10-more-prob10-prob1>
- 4) <https://sabaq.pk/video-page.php?sid=punjab-math-11th-7.4&v=m-9-10-more-prob6-prob1>
- 5) <https://sabaq.pk/video-page.php?sid=punjab-math-11th-7.4&v=m-9-10-more-prob11-prob1>

SUMMER VACATIONS HOMEWORK 2020

CLASS: XI (FEDERAL BOARD)

SUBJECT: BIOLOGY

BIOLOGY (2020)

Class: XI

Week 08	CHAPTER.8: DIVERSITY AMONG PLANTS	
	→	Topic.1: Non-Vascular Plants (Bryophytes). https://youtu.be/FmBZGx8fkp0 https://youtu.be/J9RoqW4UVLA https://youtu.be/igXhuHQHf6Q https://youtu.be/q1V1Yumpsq4
Monday	→	Topic.2: Seedless Vascular Plants. https://youtu.be/37hEIjXRyFM https://youtu.be/SFlu9HO4yXc https://youtu.be/6ZJTnejlrTI
Tuesday	→	Topic.3: Vascular Plants with Seed (Gymnosperm). https://youtu.be/zi6Xw9aGu-s https://youtu.be/h2xGKLoI5yQ https://youtu.be/TIBej30Kosc https://youtu.be/yA2cl7ukaDw
Wednesday	→	Topic.4: Vascular Plants with Seed (Angiosperm). https://youtu.be/AykzPemLs7Q https://youtu.be/T2qAJxuW6O8 https://youtu.be/WB8f8Zu_lfQ
Thursday		Activity/ Homework: https://study.com/academy/exam/topic/plant-diversity.html
		https://www.cliffsnotes.com/study-guides/biology/biology/plants-diversity-and-reproduction/quiz-plants-diversity-and-reproduction
		https://www.cliffsnotes.com/study-guides/biology/biology/plants-diversity-and-reproduction/quiz-nonvascular-plants
		https://www.cliffsnotes.com/study-guides/biology/biology/plants-diversity-and-reproduction/quiz-vascular-plants

Weekly Assessment Worksheet:

1. Fill in the correct answer:

1. Flowering plant _____
2. Has 2 seed leaves _____
3. Has 1 seed leaf _____
4. "Naked seed" _____
5. Absorbs nutrients _____
6. Openings for gas exchange _____
8. Transports water _____
9. Type of stem found on trees _____
10. Reproductive organ of plants _____
11. Insects that help pollinate _____
12. Photosynthetic organ _____
13. Process by which plants make their food _____
14. Protects the flower _____
15. Main root (small roots branch from it) _____
16. Waxy covering _____
17. Encloses the seeds (develops from ovary) _____
18. Male part of the flower _____
19. Female part of the flower _____
20. Evaporation from leaves _____

Week 09	CHAPTER.9: DIVERSITY AMONG ANIMALS.	
Monday	→	Topic.1: Characteristics of Animals and Criteria for Animal Classification.
Tuesday		https://youtu.be/UmpTARZKyvc https://youtu.be/fQ1Qf-N5oek https://youtu.be/svCsKYQOt_c
Wednesday	→	Topic.2: Phylum Porifera and Cnidaria.
Thursday		https://youtu.be/DfROrUE-xEE https://youtu.be/Dgre5EBQLaM https://youtu.be/E8uEvJ-ixrg
	→	Topic.3: Phylum Platyhelminthes and Aschelminthes.
		https://youtu.be/-fd7VrlabkM https://youtu.be/fWVMKLSRE6s https://youtu.be/BniTH0so70I https://youtu.be/WDcX0mdOqH4
	→	Topic.4: Phylum Mollusca and Annelida.
		https://youtu.be/aRV0LXkcKxo https://youtu.be/Ex2T11wMDQ https://youtu.be/cfLpR69lssk
		Activity/ Homework: https://www.biologycorner.com/resources/sli-deshows/animal_kingdom/index.html https://biologycorner.com/worksheets/simple-animals.html https://www.biologycorner.com/worksheets/pl-anarian.html https://www.biologycorner.com/worksheets/mollusk_chart.html

Weekly Assessment Worksheet:

1. Instructions: Draw a line from the Phylum to the organism that matches it. Draw another line from the organism to its description.

1. Cnidaria
2. Chordata
3. Mollusca
4. Arthropoda
5. Echinoderm
6. Annelida
7. Platyhelminthes



1. These marine animals have plates with spines
2. Three body parts, jointed legs, tough exoskeleton
3. Soft, thin, flat bodies
4. Soft bodied animals usually have a shell
5. Long animals divided into segments
6. Jelly-like animals that have a bell or umbrella shape
7. Animals that have a notochord that supports the body (or backbone)

2. Quick Match: For each animal or description listed, name the phylum it is associated with:

1. Cow _____

2. Lobster _____

3. Leech _____

4. Tapeworm _____

5. Sea anemone _____

6. Sea urchin _____

7. Octopus _____

8. Bell or umbrella shaped bodies _____

9. Most have a backbone _____

10. Jointed legs _____

11. Thin, flat bodies _____

12. Soft bodies, some have shells _____

13. Spiney plates _____

14. Exoskeleton _____

15. Segmented, long bodies _____

Week 10	CHAPTER.9:	
	DIVERSITY AMONG ANIMALS.	
Monday	—————→	Topic.1: Phylum Arthropoda and Echinodermata. https://youtu.be/S0WUYs1BPjI https://youtu.be/l_0aQI8PKPc https://youtu.be/Ca2Xur4mVd4 https://youtu.be/2aqw_1Y-484 https://youtu.be/P0oRWMUn87I
Tuesday		
Wednesday	—————→	Topic.2: Phylum Himechordata. https://youtu.be/3AVfGMjuXwc
Thursday	—————→	Topic.3: Phylum Chordata. https://youtu.be/yT5iR32Sq90 https://youtu.be/5HB0RIL7VNM
	—————→	Topic.4: Classes of Phylum Chordata. https://youtu.be/p5yobOjF6Jg https://youtu.be/UPmKWji61PA https://youtu.be/HFqUvw-OUKM https://youtu.be/W1wej9plwqo https://youtu.be/s_tzNa7OP9U https://youtu.be/dNKmyV18628
		Activity/ Homework: https://www.biologycorner.com/resources/slideshows/animal_kingdom/index.html https://www.biologycorner.com/worksheets/arthropod-chart.html https://www.biologycorner.com/resources/starfishABC.gif https://www.biologycorner.com/worksheets/animal_report.html https://www.biologycorner.com/worksheets/mammalchart.htm

Weekly Assessment Worksheet:

1. Arthropods are animals that have jointed legs. Three-fourths of all the different animal types belong to this group. For each group below, determine the name of the group and provide 2-3 examples of members in that group.

Class or Subphylum	Characteristics	Examples
	round, segmented body two pairs of legs per segment also known as myriapods "thousand feet"	
	flattened, segmented body one pair of legs per segment also known as myriapods "hundred feet"	
	hard, flexible exoskeleton gills branched antennae two body sections - abdomen & cephalothorax mostly aquatic	
	two body sections - abdomen & cephalothorax no antennae four pairs of legs chelicerae and pedipalps spinnerets	
	three body sections one pair of unbranched antennae three pairs of legs mandibles	

2. The four connecting features of the phylum Chordata include which of the following?

- Gill slits, skulls, five fingers and toes.
- Scales, filter feeders, neural crest cells, and tails
- Gill slits, dorsal nerve cord, notochord, and post-anal tail.
- Dorsal nerve cord, sensory organs, marine animals, and claws.

3. Which of the sub-phyla in Chordata have no brain(s)?

- Craniata and Tunicata
- Tunicata and Cephalochordata
- Craniata and Cephalochordata
- Craniata and Agnatha

4. Define Phylum?

5. Compare and contrast Vertebrates and Invertebrates

Week11	CHAPTER.10:	
	FORM AND FUNCTIONS IN PLANTS.	
Monday	→	Topic.1: Nutrition in Plants. https://youtu.be/i0Pjflsw3FI https://youtu.be/5xyF8LK_gu4
Tuesday	→	Topic.2: Gaseous Exchange in Plants. https://youtu.be/oo9fiF0bOLw
Wednesday	→	Topic.3: Transport in Plants (Movement of Water). https://youtu.be/bvPM6sfidY4 https://youtu.be/zZdx8ENz5Jw https://youtu.be/yErCDwdqiO0
Thursday	→	Topic.4: Uptake of Water by Roots and Pathway. https://youtu.be/GogRy2vWJ4w
		Activity/ Homework: https://www.biologycorner.com/worksheets/plantfood.html https://www.biologycorner.com/worksheets/botany_wordsearch.html https://www.biologycorner.com/worksheets/leaf_transpiration.html

Weekly Assessment Worksheet

Fill in the blanks.

- (1) Green plants are called _____ since they synthesize their own food.
- (2) The food synthesised by the plants is stored as _____
- (3) In photosynthesis solar energy is captured by the pigment called _____
- (4) During photosynthesis plants take in _____ and release _____
- (5) Proteins contain _____
- (6) Farmers enrich the soil by adding _____ and _____
- (7) In most of green plants, photosynthesis takes place in the _____
- (8) Plants are unable to use atmospheric _____
- (9) Green patches in stagnant water are aquatic _____
- (10) During photosynthesis, _____ energy is captured by the leaves and stored as food.
- (11) The occurrence of photosynthesis is tested by the presence of _____ in the leaf.
- (12) In lichena _____ and _____ live in symbiotic association.
- (13) During photosynthesis _____ energy is converted into the _____ energy of food.
- (14) Leguminous plants are examples of _____ association.
- (15) _____ plants have Rhizobium bacteria in their roots.

Week 12	CHAPTER.10: FORM AND FUNCTIONS IN PLANTS.	
Monday	—————→	Topic.1: Structure and Functions of Xylem and Phloem. https://youtu.be/CmBDVIUB19g https://youtu.be/4zwMXEh2yvw https://youtu.be/x5i8Nr9hQA0
Tuesday		
Wednesday		
Thursday	—————→	Topic.2: Ascent of Sap. https://youtu.be/VcFVrWzoqv8
	—————→	Topic.3: Translocation of Organic Solutes. https://youtu.be/zlqE9mhvh9E https://youtu.be/i5Y47EiAVrc
	—————→	Topic.4: Homeostasis in Plants. https://youtu.be/24b8oISZ_gw https://youtu.be/fGFZuCFcd84
		Activity/ Homework: https://www.biologycorner.com/worksheets/boatany_wordsearch.html https://www.turtlediary.com/quiz/plant-parts-and-their-function.html

Weekly Assessment Worksheet:

1. Carrots, beets, and turnips are examples of _____.

- Tap roots
- Lateral roots
- Root hairs
- Fruits

2. Root hairs _____.

- Are found at the root tip
- Occur in the thousands
- Are extensions of the roots
- Are single-celled
- All of the answers are correct

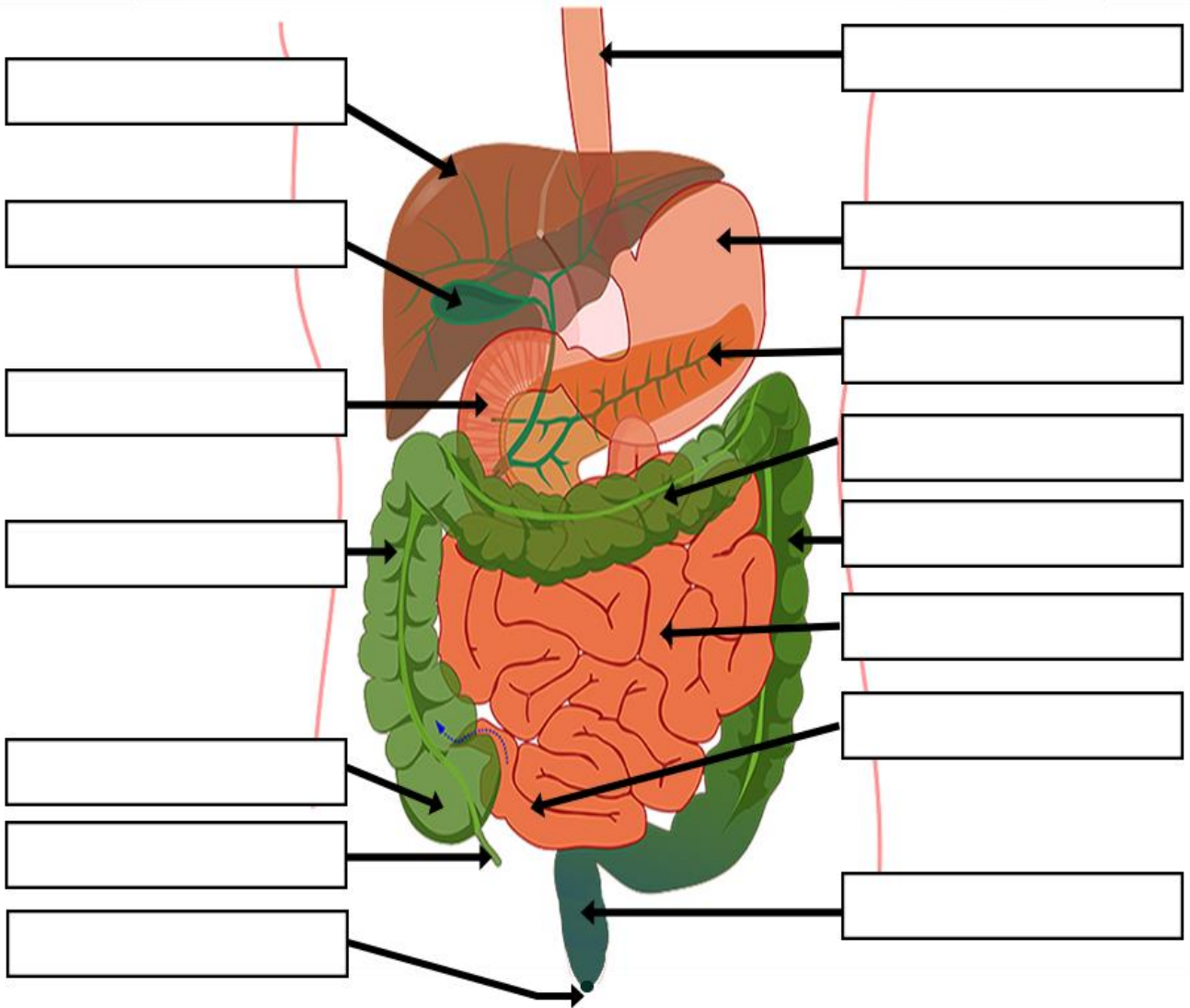
3. Describe Ascent of sap.

4. Describe translocation in Plants.

Week 13	CHAPTER.11: DIGESTION	
Monday	_____→	Topic.1: Digestive System of Man. https://youtu.be/pOYMptcQdmA
Tuesday		
Wednesday	_____→	Topic.2: Role of Accessory Glans (Liver) https://youtu.be/s2JwoqcnyS8
Thursday		https://youtu.be/LGyry5dllw8
	_____→	Topic.3: Role of Accessory Gland (Pancreas) https://youtu.be/NZ4zcrTzUjA
	_____→	Topic.4: Disorders of Digestive System. https://youtu.be/zTb9hybwL3c
		Activity/ Homework: https://www.biologycorner.com/2019/04/05/digestive-concept-map/ https://www.biologycorner.com/2019/03/30/investigation-esophagus/

Weekly Assessment Worksheet:

1. Digestive System Label the structures.



liver	pancreas	gallbladder
esophagus	appendix	cecum
ascending colon	transverse colon	descending colon
duodenum	jejunum	ileum
rectum	stomach	anus

2. Encircle the correct answer.

1. This muscular valve prevents gastric juices from flowing back out of the stomach and into the esophagus

- cecum
- uvula
- cardiac sphincter
- pyloric sphincter

2. Parotid, submandibular, and sublingual all refer to:

- secretions of the liver
- types of absorbed nutrients
- sections of the small intestine
- salivary glands

3. The common bile duct delivers bile from the _____ to the _____.

- liver, gall bladder
- gall bladder, duodenum
- pancreas, liver
- stomach, duodenum

4. This membrane holds the coils of the small intestine together:

- mesentery
- greater omentum
- serosa
- intestinal villi

5. The appendix is attached directly to the:

- cecum
- pancreas
- jejunum
- sigmoid colon

6. Following the sections of the large intestine, as material passes from the tranverse colon, what section does it enter next?

- ascending
- descending
- sigmoid
- rectum

7. Bile is responsible for breaking down:

- sugar
- cellulose
- fats
- carbohydrates

8. The part of the stomach that lies above the esophagus is the:

- pylorus
- fundus
- oblique
- hiatus

9. The last section of small intestine before it connects to the large intestine is the:

- jejunum
- duodenum
- appendix
- ileum

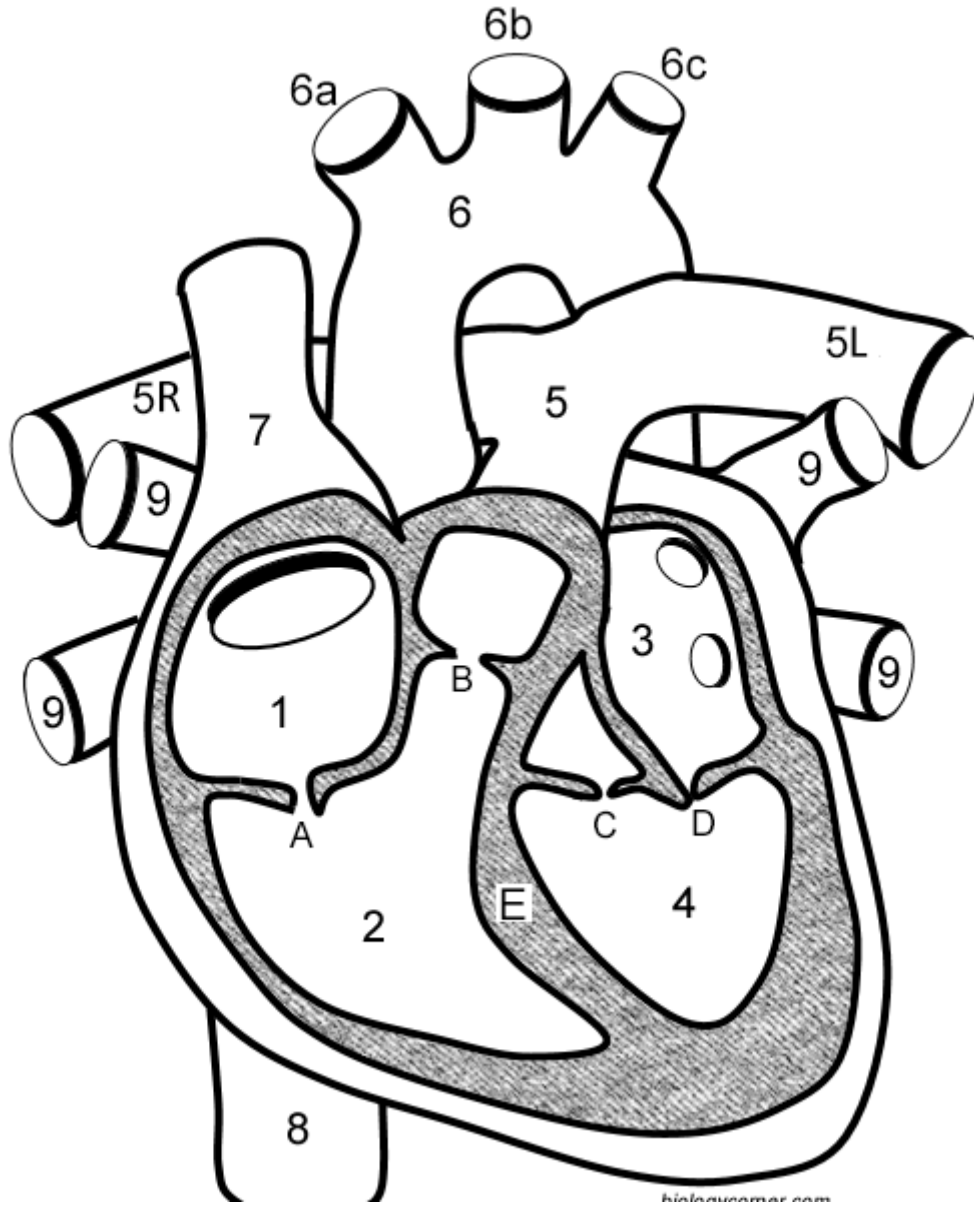
10. The cystic duct and the hepatic duct join to form the _____ before entering the duodenum.

- common bile
- pancreatic
- appendicular
- portal duct

Self Study	CHAPTER.12: CIRCULATION.	
Monday	→	Topic. 01: Structure of Human Heart.
Tuesday		https://youtu.be/OePfFeYZKyc https://youtu.be/pE0TlaqKXCk https://youtu.be/olulo9dbX88
Wednesday		
Thursday	→	Topic. 02: Passageway of Blood Through Heart. https://youtu.be/SwHjwO7Bnsl https://youtu.be/7XaftdE_h60
	→	Topic. 03: Blood Vessels. https://youtu.be/AISQEs694qY
	→	Topic. 04: Blood Pressure. https://youtu.be/J97G6BeYW0l https://youtu.be/xwK7K9SHvmM
		Activity/ Homework: https://docs.google.com/document/d/1XCCLFLuVWznHuRm6ZbFmfRqE1zZAYq57QP5vnNEINEc/edit https://www.biologycorner.com/anatomy/circulatory/heart/heart_dissection.html https://www.khanacademy.org/test-prep/mcat/organ-systems/the-circulatory-system/e/circulatory-system-questions

Weekly Assessment Worksheet:

1. For each of the numbers described below, LABEL on the heart diagram.



2. Encircle the correct answer.

What is the circulatory system?

- The body's breathing system
- The body's system of nerves
- The body's food-processing system
- The body's blood-transporting system

From what source do cells get their food?

- Blood
- Oxygen
- Other cells
- Carbon dioxide

Why is oxygen important to blood and to the cells?

- Oxygen helps the blood to clot.
- Oxygen brings food to the cells.
- Oxygen is necessary for cell growth and energy.
- Oxygen is not important -- carbon dioxide is the most important substance to the body.

Which type of blood vessels carries blood away from the heart?

- Veins
- Arteries
- Capillaries
- Arteries, veins and capillaries

Why is blood that flows from the lungs to the heart bright red rather than dark red?

- Oxygen makes it red.
- Carbon dioxide makes it red.
- Gastric juices produce the red colour of the blood.
- The lungs add a pigment (dye) to blood as it flows through them.

SUMMER VACATIONS HOMEWORK 2020

CLASS: XI (FEDERAL BOARD)

SUBJECT: PHYSICS

PHYSICS WEEK-08

Day 1 –Overview

S.No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤ Fluid friction and Fluid flow https://youtu.be/WM-0f6cVliM https://youtu.be/TPwQJ0tlxtc	➤ See book Ch:6 “Fluid dynamics” and solve it’s Q1 from book

Day 1 - Home Work

1. The pressure will be low where the speed of the fluid is _____.

(Choose only one correct answer)

- Zero
- High
- Low
- Constant

2. With the increase of temperature viscosity of fluid _____.

(Choose only one correct answer)

- Increases
- Decreases
- Remains same
- Becomes double

Short answer questions:

Q1: What is meant by fluid?

Day 2 –Overview

S.No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤Stoke's law https://youtu.be/cjNJB-SY5Cg	➤ ➤See book Ch:6 “Fluid dynamics” and solve it's Q2 from book

Day 2 - Home Work

1. Flow of water in hilly areas is an example of _____.

(Choose only one correct answer)

- Laminar flow
- Turbulent flow
- Steady flow
- None of these

2. S.I unit of viscosity is _____.

(Choose only one correct answer)

- $\text{kgm}^2\text{s}^{-1}$
- $\text{kgm}^2\text{s}^{-2}$
- $\text{kgm}^{-1} \text{s}^{-1}$
- $\text{kgm}^{-2} \text{s}^{-2}$

Short answer question

Q: Why does the pipe of paper squeezes when air is blown through it?

Q: What is viscosity of a fluid? On what factors does it depend?

Day 3 –Overview

S.No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤ Equation of continuity https://youtu.be/QHNWNXDFb3w	➤ ➤ See book Ch:6 “Fluid dynamics” and solve it’s Q4 from book

Day 3 - Home Work

1. Bernoulli’s equation is based on the law of conservation of _____.

(Choose only one correct answer)

- Mass
- Energy
- Linear momentum
- Einstein

2. Human blood pressure is measured in _____.

(Choose only one correct answer)

- Pascal
- mm Hg
- Nm^{-2}
- cm Hg

Long answer question

Q: State the equation of continuity. Show that how it is based on law of conservation of mass?

PHYSICS WEEK-09

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤SHM https://youtu.be/KOVOztFgKk4	➤See book Ch:7 “Oscillation” and solve it’s Q2 from book

Day 1 - Home Work

1. The angular frequency ‘ ω ’ and the frequency ‘f’ of a SHM are related as

_____.

(Choose only one correct answer)

- $f=2\pi\omega$
- $\omega=2\pi f$
- $f=1/2\pi\omega$
- $f=1/\omega$

2. The time period of the same pendulum at Karachi and Murree are related

_____.

(Choose only one correct answer)

- $TK=TM$
- $TK>TM$
- $TK<TM$
- $2TK=3TM$

Long answer question:

Q: Show that energy is conserved in case of S.H.M for mass spring system and body moving in a circle.

Day 2 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤ Free and forced oscillations https://youtu.be/Wy7xL_Cji9c	➤ See book Ch:7 “Oscillation” and solve it’s Q6 from book

Day 2 - Home Work

1. Natural frequency of simple pendulum depends upon _____.

(Choose only one correct answer)

- Its mass
- Its length
- Square root of its length
- None of these

2. If the period of oscillation of mass (M) suspended from a spring is 2s, then the period of mass 4M will be _____.

(Choose only one correct answer)

- 1s
- 2s
- 3s
- 4s

Short answer question:

Q: Explain what is meant by damped oscillation and its applications.

Q: Differentiate free and forced oscillation.

Day 3 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤ Resonance https://youtu.be/UTAWog1Pkho	➤ See book Ch:7 “Oscillation” and solve it’s Q7 from book

Day 3 - Home Work

1. Tuning of a radio set is an example of _____.

(Choose only one correct answer)

- Mechanical Resonance
- Musical Resonance
- Electrical Resonance
- Free Vibration

Short answer question:

Q: Define resonance.

PHYSICS WEEK-10

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤ Progressive waves https://youtu.be/N07pA9mwcsE	➤ See book Ch:8 “Waves” and solve it’s Q4,5 from book

Day 1 - Home Work

1. In a stationary wave the vibration of the particles in the two adjacent segments differ in phase by _____.

(Choose only one correct answer)

- 0°
 • 90°
 • 180°
 • 270°

2. The distance between two consecutive nodes is _____.

(Choose only one correct answer)

- λ
 • 2λ
 • $\lambda/2$
 • $\lambda/4$

Short answer questions

Q: Define and classify progressive waves and its types transverse and longitudinal waves.

Q: Define node and antinode.

Day 2 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤ Interference of waves https://youtu.be/xIU1rNWdg3k	➤ See book Ch:8 “Waves”

Day 2 - Home Work

1. Which one of the following properties is not found in both sound and light

_____.

(Choose only one correct answer)

- Interference
- Diffraction
- Reflection
- Polarization

2. Which one of the following properties proves the transverse waves nature of light ?

(Choose only one correct answer)

- Interference
- Refraction
- Polarization
- Diffraction

Long answer questions

Q: What are the conditions of constructive and destructive interference?

Day 3 – Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤ Doppler's effect https://youtu.be/5TeexSzdj2g	➤ See book Ch:8 "Waves" and solve it's Q21 from book

Day 3 - Home Work (Choose only one correct answer)

1. The Ultrasonics have sound frequencies _____ 20000 Hz.

- Equal to
- Lesser than
- Higher than
- All of these

2. Electromagnetic waves transport _____.

- (Choose only one correct answer)
- Energy
 - Momentum
 - Both
 - None of these

3. Signal form the remote control to the device operated by it travels with the speed of _____.

(Choose only one correct answer)

- Sound
- Light
- Ultrasonics
- Supersonics

4. There is no net transfer of energy by particles of medium in _____.

(Choose only one correct answer)

- Longitudinal waves
- Transverse waves
- Progressive waves
- Stationary waves

Short answer question

Q: What is Doppler's effect? Name any two cases of it.

PHYSICS WEEK-11

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤Young's double slit experiment https://youtu.be/JChB4i_YmpA	➤See book Ch:9 “Physical optics” and solve it's Q5 from book

Day 1 - Home Work

1. The tip of needle does not give a sharp image, it is due to _____.

(Choose only one correct answer)

- Polarization
- Interference
- Diffraction
- Refraction

2. The principle of young's double slit experiment is based on the division of _____.

(Choose only one correct answer)

- Amplitude
- Frequency
- Velocity
- Wavelength

3. The idea of a wave nature of light was proposed by _____.

(Choose only one correct answer)

- Thomas young
- Frensel
- Huygens
- Newton

Short answer question:

Q: Why it is not possible to obtained the diffraction of X-rays by young's double slits experiment?

Day 2 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤Michelson interferometer https://youtu.be/sSpsleex2Bk	➤ See book Ch:9 “Physical optics” and solve it’s Q7 from book

Day 2 - Home Work

1. The principle of Michelson interferometer is based on the division of _____.

(Choose only one correct answer)

- Wave front
- Amplitude
- Frequency
- Speed of light

2. Colored fringes observed in soap bubbles are the examples of _____.

(Choose only one correct answer)

- Diffraction
- Polarization
- Interference
- Refraction

Short answer questions

Q: A soap bubble looks black when it bursts, why?

Day 3 – Overview

S, No.	Topic	Activity
1	<p style="text-align: center;"><u>First Attempt and Challenges</u></p> <p>➤ Polarization https://youtu.be/SI20mYYsMLs</p>	<p>➤ See book Ch:9 “Physical optics” and solve it’s Q12 from book</p>

Day 3 - Home Work

1. Light reaches the earth from sun in nearly _____.

(Choose only one correct answer)

- 8 min
- 8 min 20 sec
- 10 min
- 12 min

2. The velocity of light was determined by _____.

(Choose only one correct answer)

- Newton
- Michelson
- Huygens
- Youngs

Long answer questions

Q: Explain polarization of light.

PHYSICS WEEK-12

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤First law of thermodynamics and its applications https://youtu.be/DQkKRYw-VZ0	➤See book Ch:10 “Thermodynamics” and solve it’s Q6,7 from book

Day 1 - Home Work

1. $Q=W$ is the mathematical form of _____.

(Choose only one correct answer)

- Isobaric process
- Isochoric process
- Isothermal process
- Adiabatic process

2. In an isothermal change, internal energy _____.

(Choose only one correct answer)

- Decreases
- Increases
- Zero
- Remains constant

3. Maximum work can be obtained in the process called _____.

(Choose only one correct answer)

- Cyclic
- Isothermal
- Adiabatic
- Isochoric

Long answer question:

Q: State and explain first law of thermodynamics also its application Isothermal and isochoric process.

Day 2 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤Heat engine https://youtu.be/UanEx6NP6p4	➤See book Ch:10 “Thermodynamics” and solve it’s Q10 from book

Day 2 - Home Work

1. The S.I. unit of Heat energy is given by _____.

(Choose only one correct answer)

- Calorie
- Kilo Calorie
- Joule
- Joule.sec

2. A Heat engine is consist of _____.

(Choose only one correct answer)

- Source
- Sink
- Working substance
- All of these

Long answer question:

Q: What is meant by a heat engine? What is its main purpose? How is its efficiency defined?

Day 3 –Overview

S, No.	Topic	Activity
1	<p style="text-align: center;"><u>First Attempt and Challenges</u></p> <p>➤ Entropy</p> <p>https://youtu.be/hdpni2XEWIo</p>	<p>➤ See book Ch:10 “Thermodynamics” and solve it’s Q14 from book</p>

Day 3 - Home Work

1. The unit of Entropy is _____.

(Choose only one correct answer)

- JK
- JK⁻¹
- Nm/s
- Nm

2. Net change in entropy in a Carnot engine is _____.

(Choose only one correct answer)

- Negative
- Positive
- Zero
- None of these

Short answers question

Q: Derive the relation for co-efficient of performance of refrigerator for cooling and heat.

Q: Does entropy of a system increases or decrease due to friction?

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤Dimensions https://youtu.be/pPqrfcBdnHw	➤See book Ch:1 “Measurement” and solve it’s Q16 from book

Day 1 - Home Work

1. Which one is a pair of S.I base units?

(Choose only one correct answer)

- Kilogram Kelvin
- Meter Newton
- Ampere Joule
- Coulomb Second

2. The dimension of acceleration is _____.

(Choose only one correct answer)

- $M^1L^1T^{-2}$
- $M^0L^1T^{-2}$
- $M^1L^0T^{-2}$
- $M^{-1}L^{-1}T^{-2}$

Short answer question

Q: Find the dimension of Kinetic energy.

Day 2 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤ Scalar product https://youtu.be/5rYwbpSY5TA	➤ See book Ch:2 “Vectors and equilibrium” and solve it’s Q12 from book

Day 2 - Home Work

1. The angle between two rectangular components of any vector is _____.

(Choose only one correct answer)

- 30°
- 60°
- 90°
- 120°

2. If $A \cdot B = 1$ and $A = 2$ while $B = 1$, then the angle between them is _____.

(Choose only one correct answer)

- 45°
- 30°
- 60°
- 90°

Short answer question

Q: Can the scalar product of two vectors be negative? If yes given an example.

Day 3 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤ Vector product https://youtu.be/GAfPWBh66D8	➤ See book Ch:2 “Vectors and equilibrium” and solve it’s Q14 from book

Day 3 - Home Work

1. Which of the following is not an example of vector product?

(Choose only one correct answer)

- Torque
- Angular momentum
- Linear momentum
- None of these

2. If R_x is positive and R_y is negative then θ lies in _____ quadrant.

(Choose only one correct answer)

- 1st
- 2nd
- 3rd
- 4th

3. The cross product of $k \times j$ is equal to S _____.

(Choose only one correct answer)

- i
- -i
- 1
- -1

Long answer questions

Q: Explain vector products of two vectors with examples.

PHYSICS WEEK-14/ Self Study

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤ Equilibrium https://youtu.be/ko_DAKhbopI	➤ See book Ch:2 “Vectors and equilibrium” and solve it's Q7 from book

Day 1 - Home Work

1. When 1st condition of equilibrium is satisfied, then it guarantees for _____.

(Choose only one correct answer)

- Complete equilibrium
- Translational equilibrium only
- Rotational equilibrium
- Static equilibrium only

Short answer question:

Q: Define is Equilibrium. Also state the condition of Equilibrium.

Day 2 –Overview

S, No.	Topic	Activity
1	<p style="text-align: center;"><u>First Attempt and Challenges</u></p> <p>➤ Impulse</p> <p>https://youtu.be/h37vopTVtro</p>	<p>➤ See book Ch:3 “Motion and force” and solve it’s Q14,16,18 from book</p>

Day 2 - Home Work

1.Change in momentum is called _____.

(Choose only one correct answer)

- Force
- Pressure
- Tension
- Impulse

Long answer question:

Q: Show that $\vec{F} = \Delta \vec{P} / \Delta t$.

Day 3 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤Projectile motion https://youtu.be/-4DEqIAs8Hg	➤See book Ch:3 “Motion and force” and solve it’s Q22,24 from book

Day 3 - Home Work

1. For an elastic collision between the two particles, which of the following is correct?

(Choose only one correct answer)

- Momentum is conserved
- K.E is conserved
- Total energy is conserved
- All of the above

2. For which of the following pair of angles the projectile will hit the same point?

(Choose only one correct answer)

- 30°,40°
- 30°,60°
- 0°,90°
- None of these

Short answer questions:

Q: Show that the total time of flight of projectile is $T=2V\sin\theta/g.s$

SUMMER VACATIONS HOMEWORK 2020

CLASS: XI (FEDERAL BOARD)

SUBJECT: CHEMISTRY

Chemistry Week-08

Days	Topics	Links
Day 1	<ul style="list-style-type: none">• First law of Thermodynamics• Enthalpy(Heatcontent)	<ul style="list-style-type: none">• https://youtu.be/g_YqJ66ax10• https://youtu.be/CvfeBJIq71U
Day 2	<ul style="list-style-type: none">• Thermal reactions (Exothermic and Endothermic reactions)• Heat Capacity	<ul style="list-style-type: none">• https://youtu.be/r0xXGJjH0Zk• https://youtu.be/lhN7EPWEVjw
Day 3	<ul style="list-style-type: none">• Calorimetry• Born Haber cycle	<ul style="list-style-type: none">• https://youtu.be/JuWtBR-rDQk• https://youtu.be/TOg_tBgZXfM

Worksheets: Day:1

1. Which of the following substances have zero value for their standard enthalpy of formation?
(A) O₃
(B) H₂O
(C) ZnO
(D) N.O.T
2. Calorie is equivalent to
(A) 4.18J
(B) 4.18KJ
(C) 60.418J
(D) 0.418KJ
3. Total heat content of a system is called
(A) Enthalpy
(B) Internal energy
(C) Heat
(D) State function
4. Heat of _____ of a substance is always negative.
(A) Formation
(B) Combustion
(C) Decomposition
(D) Solution

5. A balloon filled with oxygen is placed in a freezer. Identify the system.
- (A) Balloon
 - (B) Oxygen
 - (C) Freezer
 - (D) All of these
6. Molarity of pure water is
- (A) 1
 - (B) 1.8
 - (C) 55.5
 - (D) 18
7. All solution containing 1g of non-volatile solutes will have
- (A) Same vapour pressure
 - (B) Same boiling point
 - (C) Same freezing point
 - (D) All of these
8. Which of the following is volatile?
- (A) Glucose
 - (B) Urea
 - (C) Sucrose
 - (D) Water
9. Which of the following is universal solvent?
- (A) Alcohol
 - (B) water
 - (C) Hemoglobin
 - (D) All of these
10. A bomb calorimeter is used in _____ calorimetry?
- (A) Constant volume
 - (B) Constant pressure
 - (C) Both a and b
 - (D) Constant temperature

Day: 02

1. Which of the following has hexagonal structure?

- A. NaCl
- B. KCl
- C. Diamond
- D. Graphite

2. According to Bohr atomic model

- A. Each orbit has fixed energy, so each orbit is called sub-energy level.
- B. The energy of the electron is inversely proportional to its distance from the nucleus.
- C. Light is absorbed when an electron jumps a lower energy orbit.
- D. The further the electron is from the nucleus, the more energy it has.

3. A sub-shell that can accommodate 6 electrons is

- A. s
- B. d
- C. p
- D. f

4. Rutherford used ___ particles in his experiments.

- A. He atoms
- B. He^+
- C. He^{+2}
- D. He^{-2}

5. The average mass of natural mixture of isotopes, which is compared to the mass of one atom of ^{12}C is called:

- (A) Atomic number
- (B) Mass number
- (C) Atomic mass
- (D) None of these

6. The empirical formula of Benzene is_____.

- (A) C_6H_6
- (B) CH
- (C) C_2H_6
- (D) C_2H

7. The nucleus of an atom consists of:

- (A) Electrons and protons
- (B) Protons and neutrons
- (C) Electrons and neutrons
- (D) None of these

8. Anything that has mass and occupy space called_____.

- (A) Weight
- (B) Mass
- (C) MATTER
- (D) None of these

9. Number of periods in the periodic table are:

- (A) 8
- (B) 7
- (C) 16
- (D) 5

10. Which of the following elements belongs to VIIIA?

- (A) Na
- (B) Mg
- (C) Br
- (D) Xe

11. Which of the following groups contain alkaline earth metals?

- (A) 1A
- (B) IIA
- (C) VIIA
- (D) IIIA

12. It is the branch of chemistry which deals with the study of hydrocarbons are _____

- (A) Organic
- (B) Inorganic
- (C) Analytical
- (D) Physical

13. NaCl is the formula of _____.

- (A) Sodium chloride
- (B) Nitrogen chloride
- (C) Water
- (D) N.O.T

14. How many states of matter?

- (A) 3
- (B) 6
- (C) 4
- (D) 8

Day: 03

Give answers of the following.

- a. Distinguish between the solvation of ionic species and molecular species.
- b. Define the term water of hydration.
- c. List the characteristics of colloids and suspension.
- d. Define hydrophilic and hydrophobic molecules.

Explain the following:

- i. Molality is independent of temperature but molarity depends on it.
- j. NaCl and NaNO₃ are used to lower the melting point of ice.
- k. In summer the antifreeze solutions protect the radiator from boiling over.

Chemistry Week-09

<u>Days</u>	<u>Topics</u>	<u>Links</u>
Day 1	<ul style="list-style-type: none">• ELECTROCHEMISTRY (OXIDATION AND REDUCTION)• BALANCING REDOX REACTION	<ul style="list-style-type: none">• https://youtu.be/wgktsk• https://youtu.be/z3JO2t2P04
Day 2	<ul style="list-style-type: none">• ELECTROCHEMICAL CELLS• Daniel cell	<ul style="list-style-type: none">• https://youtu.be/V5TqMuHaDuY• https://youtu.be/xDITrdbajAs
Day 3	<ul style="list-style-type: none">• Lead acid Battery• Working principal of lead acid battery.	<ul style="list-style-type: none">• https://youtu.be/HhxtfULIO7c• https://youtu.be/HHgPBMMZ26w

Worksheets:

Day:1

1. Identify the compound in which oxidation number of Fe is +3, FeO, FeO₃, Fe₂O₃.
2. Calculate the oxidation number of
 - a. Mn in KMnO₄
 - b. Cr in K₂Cr₂O₇
 - c. S in SO₄⁻²
 - d. N in HNO₃
 - e. P in H₃PO₄
3. Explain the following with reasons.
 - a. The oxidation potential of Zn is +0.76V and its reduction potential is -0.76V.
 - b. A salt bridge maintains the electrical neutrality in the cell.

- c. Na and K can displace hydrogen from acids but Cu and Pt cannot.
- d. Lead storage battery is rechargeable battery.
- e. Zn plating saves Fe from corrosion.

4. Differentiate between the following.

- a. A galvanic and electrolytic cell.
- b. Oxidation half-reaction and reduction half-reaction.

Day02:

WORKSHEETS

1. In which of the following processes speed of the particles decreases?
 - a. Melting
 - b. Boiling
 - c. Sublimation
 - d. Condensation
 - e. Evaporation
2. liquid boils when its vapour pressure become equal to.
 - a. 760 cm Hg
 - b. 1Pa
 - c. 101.325 KPa
 - d. 0.1atm
3. Which of the following atoms obey duplet rule?
 - a. O₂
 - b. F₂
 - c. H₂
 - d. N₂
4. Silicon belongs to group IVA. It has_____ electrons in the valence shell.
 - a. 2
 - b. 3
 - c. 4
 - d. 6

5. Phosphorous Belongs to thirds periods of Group VA. How many electrons it needs to complete its valence shell.

- a. 2
- b. 3
- c. 4
- d. 5

6. Identify the covalent compound.

- a. NaCl
- b. MgO
- c. H₂O
- d. KF

7. Number of periods in the periodic table are:

- a. 8
- b. 7
- c. 16
- d. 5

8. Which of the following groups contain alkaline earth metals?

- a. IA
- b. IIA
- c. VIIA
- d. VIIIA

9. Main group elements are arranged in _____ groups.

- a. 6
- b. 7
- c. 8
- d. 10

Day: 03

1. Why electron Affinity increases along a group?
2. Give three reason of chemical bonds formation?
3. Describe the formation of MG^{++} cation with the help of electronic configuration and electron dot structure?
4. What is difference between Dipole – Dipole interaction and Hydrogen Bonding? Give one example for each.
5. A Bacterial culture isolated from sewage produces 36.4 cm³ of methane (CH₄) gas at 27°C and 760mm Hg pressure. This gas occupies 33.124 cm³ at 0°C and same pressure. Explain Volume – temperature relationship from this data?

Chemistry Week-10

Days	Topics	Links
Day 1	<ul style="list-style-type: none">• Acid, basic and Amphoteric substances• Bronsted concept Acid and Base	<ul style="list-style-type: none">• https://youtu.be/g6_cBKXr_KE• https://youtu.be/TiWpTEtv4xo
Day 2	<ul style="list-style-type: none">• Lewis concept Acid and Base	<ul style="list-style-type: none">• https://youtu.be/Jk8qoGmlO_k
Day 3	<ul style="list-style-type: none">• Buffer solution and its application	<ul style="list-style-type: none">• https://youtu.be/IYb8-EsMxtA

Worksheets:

Day: 01 Do Self assessment exercise 12.4 (page no:318),12.5 (page no:319)

Day: 02

1. For a particular organic compound, which of the following pairs can represent the empirical and the molecular formula respectively?

- A.CH and CH₄
- B.CH and C₆H₆
- C.CH₂ and C₂H₂
- D.CH₂ and C₂H₃
- E.CH₃ and C₃H₆

2. Empirical formula mass and molecular mass are related as:

- A. Empirical formula mass x 2 = molecular mass
- B. Empirical formula mass x n = molecular mass
- C. Molecular mass x n = Empirical formula mass
- D. Molecular mass x empirical formula mass = n
- E. Molecular mass x2 = empirical formula mass

3.2 grams of H_2 molecules contain _____ molecules.

- A. 12.04×10^{23}
- B. 6.02×10^{23}
- C. 3.01×10^{23}
- D. 1.008
- E. 2

4. Which of the following has same empirical and molecules formulas?

- A. CH_4
- B. H_2O
- C. $NaCl$
- D. MgO
- E. All of the above

5. The number of atoms in 9.2 g of Na will be:

- A. 6.2×10^{23} atoms
- B. 2.408×10^{23} atoms
- C. 9.2×10^{23} atoms
- D. 23 atoms
- E. 9.2 atoms

6. The significant figure for 1.41×3.546 is:

- A. 15.100
- B. 5.00
- C. 8.00
- D. 6.50
- E. 10.00

7. Calculate the volume of O_2 at STP for the complete combustion two moles of carbon disulphide which produces CO_2 and SO_2 .

- A. 130 dm^3
- B. 134.4 dm^3
- C. 89.6 dm^3
- D. 44.8 dm^3
- E. 22.4 dm^3

8. What is the volume in cm^3 of 3.01×10^{23} molecules of O_2 gas at S.T.P.?

- A. 1000 cm^3
- B. 11000 cm^3
- C. 1120 cm^3
- D. 11200 cm^3

9. Which of the following pair has similar empirical formula?

- A. C_2H_2 & C_6H_6
- B. C_4H_8 & C_2H_4
- C. C_5H_{10} & C_6H_{12}
- D. all have same empirical formula

10. 8 grams of O₂ gas contains:

- A. 25mol
- B. 2.5mol
- C. 0.25mol
- D. 0.025mol
- E. 0.001mol

11. Characteristic of 100 is:

- A. Zero
- B. One
- C. Two
- D. Three
- E. Four

12. A limiting reactant is the one which:

- A. is taken in lesser quantity in grams as compared to reactants
- B. is taken in lesser quantity in volume as compared to other reactants
- C. gives the maximum amount of product which is required
- D. gives the minimum amount of product under consider

Day: 03

i) The temperature at which two or more than two types of crystals exist in equilibrium is called_____.

- A. Melting point
- B. Transition temperature
- C. Eutectic Temperature
- D. Boiling point

ii) Iron acts as an electrical conductor due to _____.

- A. Electron
- B. Free proton
- C. Free neutrons
- D. Free ions

iii) To help diagnose illness, doctors often need to know which amino acids are present in blood or urine. Which method is common by used to separate and identify amino acids?

- A. Chromatography
- B. Distillation
- C. Re-crystallization
- D. Filtration

E. Sublimation

iv) Thermostat is an instrument which_____.

- A. Increase the temperature
- B. Decrease the temperature
- C. Maintain the temperature
- D. Fluctuate the temperature

v) When steam condenses, the particles _____.

- A. Shrink to a smaller size
- B. Lose energy to the surroundings
- C. Move further apart
- D. Vibrate about fixed positions

vi) Which statement explains why the compounds propane and CO_2 diffuse at the same rate?

- A. They are both gases
- B. Their molecules contain carbon
- C. They have the same relative molecular mass
- D. None of these

vii) For which species Bohr's theory does not apply _____.

- A. H
- B. He^+
- C. Li^{2+}
- D. Be

viii) The third line in Balmer series corresponds to an electronic transfer between which Bohr's orbit in hydrogen _____.

- A. $5 \rightarrow 3$
- B. $5 \rightarrow 2$
- C. $4 \rightarrow 3$
- D. $4 \rightarrow 2$

ix) Electronic configuration of species M^{2+} is $1s^2 2s^2 2p^6 3s^2 3p^6 3d^6$ and its atomic weight is 56, number of neutrons in the nucleus of species M is _____.

- A. 20
- B. 26
- C. 28
- D. 30

x) From the discharge tube experiment, it is concluded that _____.

- A. Mass of a proton is in fraction
- B. Position rays are heavier than proton
- C. Matter contained electrons
- D. Nucleus contains positive charge

Chemistry Week-11

Days	Topics	Links
Day 1	<ul style="list-style-type: none">Valence Shell Electron Pair Repulsion Theory(VSEPR)Sigma and Pi bond	<ul style="list-style-type: none">https://youtu.be/e99iaUKsucchttps://youtu.be/qzdRPv4Ns4
Day 2	<ul style="list-style-type: none">Hybridization of Atomic orbitalssp³ Hybridization	<ul style="list-style-type: none">https://youtu.be/K914ZDuSgiUhttps://youtu.be/K914ZDuSgiU
Day 3	<ul style="list-style-type: none">sp² Hybridizationsp Hybridization	<ul style="list-style-type: none">https://youtu.be/JxNpU3Ky7xAhttps://youtu.be/gRWI5zUpHM

Worksheets:

Day: 01

1. Differentiate between sigma and pi bond.
2. Differentiate between VBT and MOT.
3. According to VESPR THEORY, the most probable shape of the molecule having 4 electron pairs around the central atom is
 - e. Hexagonal
 - f. Tetragonal
 - g. Octahedral
 - h. Linear
4. Molecular orbital theory can explain the paramagnetic character of O₂, O₂²⁺ and O₂²⁻ species. Evaluate it.
5. A double bond is stronger than a single bond and a triple bond is weaker than a double bond.

Day: 02

i) Wave mechanical model of the atom depends upon _____.

- A. De-Broglie's concept of duality B. Uncertainty principle
C. Schrodinger's wave equation D. All of the above

ii) When one mole of each of the following is completely burnt in oxygen, which will give the largest mass of CO₂?

- A. Carbon monoxide B. Diamond C. Ethane D. Methane

iii) One mole of ethanol and one mole of ethane have an equal_____.

- A. Mass B. Number of atoms
C. Number of electrons D. Number of molecules

iv) If four moles of SO₂ are oxidized to SO₃, how many moles of oxygen molecules are required?

- A. 0.5 B. 1.0 C. 1.5 D. 2.0

v) When method could be used to obtain copper from mixture of pondered copper and sodium chloride?

- A. Heating the mixture
B. Fractional distillation of the mixture
C. Passing an electric current through the mixture
D. Adding excess water to the mixture and filtering

vi) A liquid is thought to be pure ethanoic acid, (acetic acid) which of the following is the best way to test its purity?

- A. Measure its B.P B. React it with ethanol
C. Burn it completely in oxygen D. Dehydrate it with concentrated H₂SO₄

vii) When compressed hydrogen is allowed to expand rapidly, it causes_____.

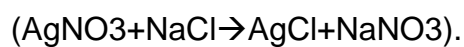
- A. Cooling B. Heating
C. Liquefaction D. Solidification

viii) The geometry of PF₃ molecules is

- A. Planner B. Square planner
C. Trigonal bi pyramidal D. Tetrahedral

Day: 03

1. Why theoretical yield is always greater than actual yield?
2. What are the properties of positive rays?
3. How much silver chloride will be formed by mixing 120.0g of silver nitrate with a solution of 52.0g of NaCl.



4. Differentiate between proton and neutron?
5. Write the electronic configuration of following elements:
a) ${}_{20}\text{Ca}^{40}$ b) ${}_{17}\text{Cl}^{35}$ c) ${}_{13}\text{Al}^{27}$
6. How mass of electron can be calculated from e/m ratio and charge?
7. Define Isomorphism and Polymorphism.
8. Calculate the value of R at STP?

Chemistry Week-12

Days	Topics	Links
Day 1	<ul style="list-style-type: none">• Dalton's law of partial pressure• Application of Dalton's law of partial pressure	<ul style="list-style-type: none">• https://youtu.be/daXaY6wvFNQ• https://youtu.be/XC1txxuEKhg
Day 2	<ul style="list-style-type: none">• Fourth state of matter (THE PLASMA)• Evaporation and Vapour pressure and its factors.	<ul style="list-style-type: none">• https://youtu.be/zqzWfgu Yj1c• https://youtu.be/CfaqHzOt IDM
Day 3	<ul style="list-style-type: none">• Viscosity• Surface Tension and its factors	<ul style="list-style-type: none">• https://youtu.be/DVQw0sv RHZA• https://youtu.be/zMzqiAuO Sz0

Worksheets:

Day: 01

1. What is Linde's method?
2. What is Percentage composition? The percentage of Mg is 60.3% and oxygen=39.7%.
3. Calculate the percentage of MgO?
4. What is Lyman series?
5. What is Balmer series?
6. What are Paschen, Pfund and Brackett series?

Day: 02

(i) PV= nRT represent

- | | |
|-----------------|-------------------------|
| a. Boyle's law | b. General gas equation |
| c. Charle's law | d. Newton's law |

(ii) The unit of viscosity is_____.

- | | | | |
|-----------|----------|---------|--------|
| a. Dyness | b. Poise | c. Torr | d. Erg |
|-----------|----------|---------|--------|

(iii) The force which tends to reduce the surface area of liquid is called_____.

- | | |
|--------------|--------------------|
| a. Viscosity | b. Surface tension |
| c. Density | d. Vapour pressure |

(iv)The unit cell with crystallographic dimension $a=b \neq c$, $\alpha=\beta=\gamma=90^\circ$ is_____.

- | | | | |
|----------|---------------|--------------|---------------|
| a. Cubic | b. Monoclinic | c. Hexagonal | d. Tetragonal |
|----------|---------------|--------------|---------------|

(v) Log (a)ⁿis equal to :

- | | | | |
|-------|------------|------------|--------|
| a. na | b. a log n | c. n log a | d. a/n |
|-------|------------|------------|--------|

Note: Solve the following question.

1. Calculate the number of atoms in 9.2 g of Na.
2. Calculate the mass in gram of 3.01×10^{20} molecules of Glucose ($C_6H_{12}O_6$).
3. With the help of log, find the value $(25.4)^3 \times (416.2)^{3/4}$.
4. Calculate the number of moles in 200 g of:
a. O_2 b. CO_2 c. NH_3 d. H_2O e. N_2 f. H_2

Day: 03

Fill in the blanks.

- I. The reaction $\text{Zn} + 2\text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2$ is the _____ replacement reaction.
- II. _____ is the reaction in which two or more substances combine together to form a single substance.
- III. 18 grams of H_2O contains _____ molecules.
- IV. A reaction in which a substance burns in oxygen to produce heat and flame is called _____.
- V. PVC which is a plastic is the short name for _____.
- VI. Al-Razi divided chemical substances on the basis of their _____.
- VII. Biochemistry is the backbone of _____.

MCQ'S

1. 1 mole of carbon is equal to _____.
a. 1g b. 6g c. 12g d. 24g
2. Coordinate covalent bond is always formed between the two _____ atoms.
a. like b. unlike c. Both a, b d. N.O.T
3. Formation of water from H_2 and O_2 is _____ reaction.
a. Exothermic b. Endothermic c. Neutralization d. N.O.T
4. The molecular formula of sand is _____.
a. SiO_2 b. Na_2SiO_3 c. CuSiO_3 d. N.O.T
5. The mass of electron is equal to _____.
a. $9.11 \times 10^{-26}\text{g}$ b. $9.11 \times 10^{-27}\text{g}$ c. $9.11 \times 10^{-28}\text{g}$ d. $9.11 \times 10^{-30}\text{g}$

Chemistry Week-13

<u>Days</u>	<u>Topics</u>	<u>Links</u>
Day 1	<ul style="list-style-type: none"> Reversible and Irreversible reactions Types of Equilibrium and Dynamic Equilibrium 	<ul style="list-style-type: none"> https://youtu.be/yBUgRGYGbCQ https://youtu.be/zhEcCBVaUVE
Day 2	<ul style="list-style-type: none"> Discharge tube Experiment (Discovery of ELECTRON) 	<ul style="list-style-type: none"> https://youtu.be/_LsTyEtNg0c
Day 3	<ul style="list-style-type: none"> Positive or Canal Rays 	<ul style="list-style-type: none"> https://youtu.be/g9k9GX4VhmM

Worksheets:

Day: 01

Do self check Exercises:7.1(page no:170 in book),7.2(page no:171 in book) 7.4(page no:174)

Day: 02

- Which of the following is not the macroscopic characteristics of forward reaction?
 - It is written from left to right
 - Reactants produce products
 - Rate is fastest in the beginning and gradually slows down
 - Products produce reactants
- Which scientist proposed the law of mass action?
 - C.M Lewis
 - C.M Wanderwal
 - C.M Gulder
 - C.M Guldberg
- K_c is independent of
 - Temperature
 - Pressure
 - Both temperature and pressure
 - K_p
- NaCl can be purified by passing HCl gas through the _____ solution of NaCl.
 - Dilute
 - Concentrated
 - Hot
 - Cold
- $K_C=K_P$ when Δn is equal to
 - Zero
 - +1
 - 1
 - 2

Day: 03

1. Define and explain the following term:
 - a. Reaction quotient
 - b. Common ion effect
 - c. Ion product
2. .How does Mosley's law help in the production of X-rays.
3. What is the relationship between energy and wavelength?
4. Why is 4s orbital lower in energy than 3d orbital?
5. What is(n+l) rule?
6. What is the difference between orbit and orbital?
7. State Heisenburg's uncertainty principal.
8. Differentiate between frequency and wavelength.
9. Which quantum number is also called sub-shell quantum number?
10. What species and formed by the decay of neutron.

Chemistry Week- 14/Self Study

Days	Topics	Links
Day 1	<ul style="list-style-type: none">Discovery of NeutronRutherford Experiment	<ul style="list-style-type: none">https://youtu.be/hbd1fOKfReghttps://youtu.be/kHaR2rsFNhg
Day 2	<ul style="list-style-type: none">The Quantum numbers and orbitalElectronic Configuration	<ul style="list-style-type: none">https://youtu.be/wMdWDJEIbGIhttps://youtu.be/saTlzbNRInA
Day 3	<ul style="list-style-type: none">Electroplating	<ul style="list-style-type: none">https://youtu.be/OxhCUjBiOA

Worksheets:

Day: 01

1. Do practice

Example 2.2(Page no 34)

Example 2.3(Page no 34)

Example 2.4(Page no 35)

Example 2.5(Page no 35)

Example 2.6(Page no 35,36)

2. Self Check Exercise 2.1

3. Self Check Exercise 2.2

Day: 02

I. What is the mass of four moles of hydrogen (H₂) gas?

- (a) 1g (b) 10g (c) 8.064g (d) 2.016g

II. 'M' shell of an atom has the following sub-shell?

- (a) 2s, 2p (b) 1s, 2s, 2p (c) 3s, 3p, 3d (d) 1s, 2s, 3s

III. Which one of the following elements belong to Group III A of the periodic table?

- (a) Mg (b) K (c) Al (d) Si

IV. Which of the following molecules has triple covalent bond between its atoms?

- (a) H₂ (b) N₂ (c) O₂ (d) F₂

VI. The bond formed between atoms due to transfer of electrons from one atom to another is called?

- (a) Ionic Bond (c) Covalent bond
(b) Co-ordinate covalent bond (d) Hydrogen bond

VII. Number of neutrons in ²⁷M is?

- (a) 13 (b) 14 (c) 27 (d) 15

VIII. Which of the following is not unit of pressure?

- (a) m³ (b) KPa (c) mmHg (d) tor

IX. The oxidation number of "N" in HNO₃ is

- (a) +2 (b) +3 (c) +5 (d) +7

X. Alloys are an example of:

- (a) Gas – Liquid solution (c) Gas – Solid Solution
(b) Liquid – Solid Solution (d) Solid – Solid solution

Day: 03

- Calculate the number of moles of solute present in 1.25 cm³ of 0.5 M H₃PO₄ solution?
- Describe rules for assigning oxidation states?
- Draw labelled diagram of a dry cell?
- Define electroplating. Also write conditions for good electroplating?
- What is Alloying? Also give example?

SUMMER VACATIONS HOMEWORK 2020

CLASS: XI (FEDERAL BOARD)

SUBJECT: COMPUTER SCIENCE

NETWORK COMMUNICATION AND PROTOCOLS

a. Day 1 –Network Communication

Unit	Topic	Activities /Worksheet
Unit .05	NETWORK COMMUNICATION AND PROTOCOLS 5.1. Network Communication <ul style="list-style-type: none"> • Basic network communication components: Sender, Message, Medium, Receiver • https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-network-1 • https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-comm-1 • https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-comm-4a 	https://www.tutorialspoint.com/data_communication_computer_network/index.htm

b. Day 1 – Home Work

- Define basic network components with the help of diagram.
- Answer the quiz given by following the link mentioned below.

<http://examradar.com/data-communication-networking-mcqs-set-1/> .

c. Day 2 – Modes of network communication

Unit	Topic	Activities /Worksheet
Unit .05	NETWORK COMMUNICATION AND PROTOCOLS 5.1. Network Communication <ul style="list-style-type: none"> • Modes of network communication: <ul style="list-style-type: none"> • Simplex, Half-duplex and Full-duplex • Synchronous transmission, Asynchronous transmission • https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-comm-7 • https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-comm-11 	https://www.careerride.com/view/introduction-of-data-communication-networking-test-15781.aspx

d. Day 2 - HomeWork

Answer the quiz given by following the link mentioned below.

<https://www.careerride.com/view/introduction-of-data-communication-networking-test-15781.aspx>

e. Day 3 –Communication media

Unit	Topic	Activities /Worksheet
Unit .05	NETWORK COMMUNICATION AND PROTOCOLS 5.1. Network Communication <ul style="list-style-type: none">• Communication media: Guided communication media, Unguided communication media• https://www.slideshare.net/whatosama/guided-and-unguided-media-106663732• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-comm-15	<ul style="list-style-type: none">• https://www.tutorialspoint.com/communication_technologies/communication_technologies_transmission_media.htm• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-comm-14

f. Day 3 - HomeWork

- Answer the quiz given by following the link mentioned below.
<https://quizizz.com/admin/quiz/5a9f2d743a77730019755707/transmission-media>

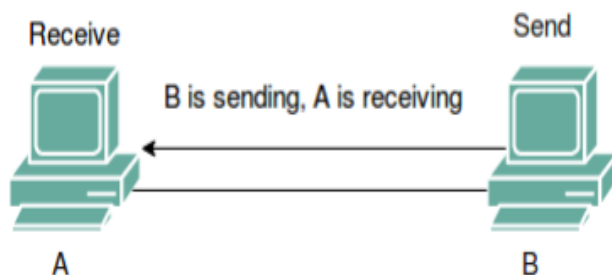
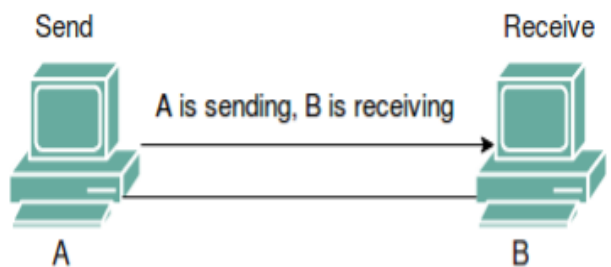
WEEK WISE ASSESSMENT

Write Short Answers

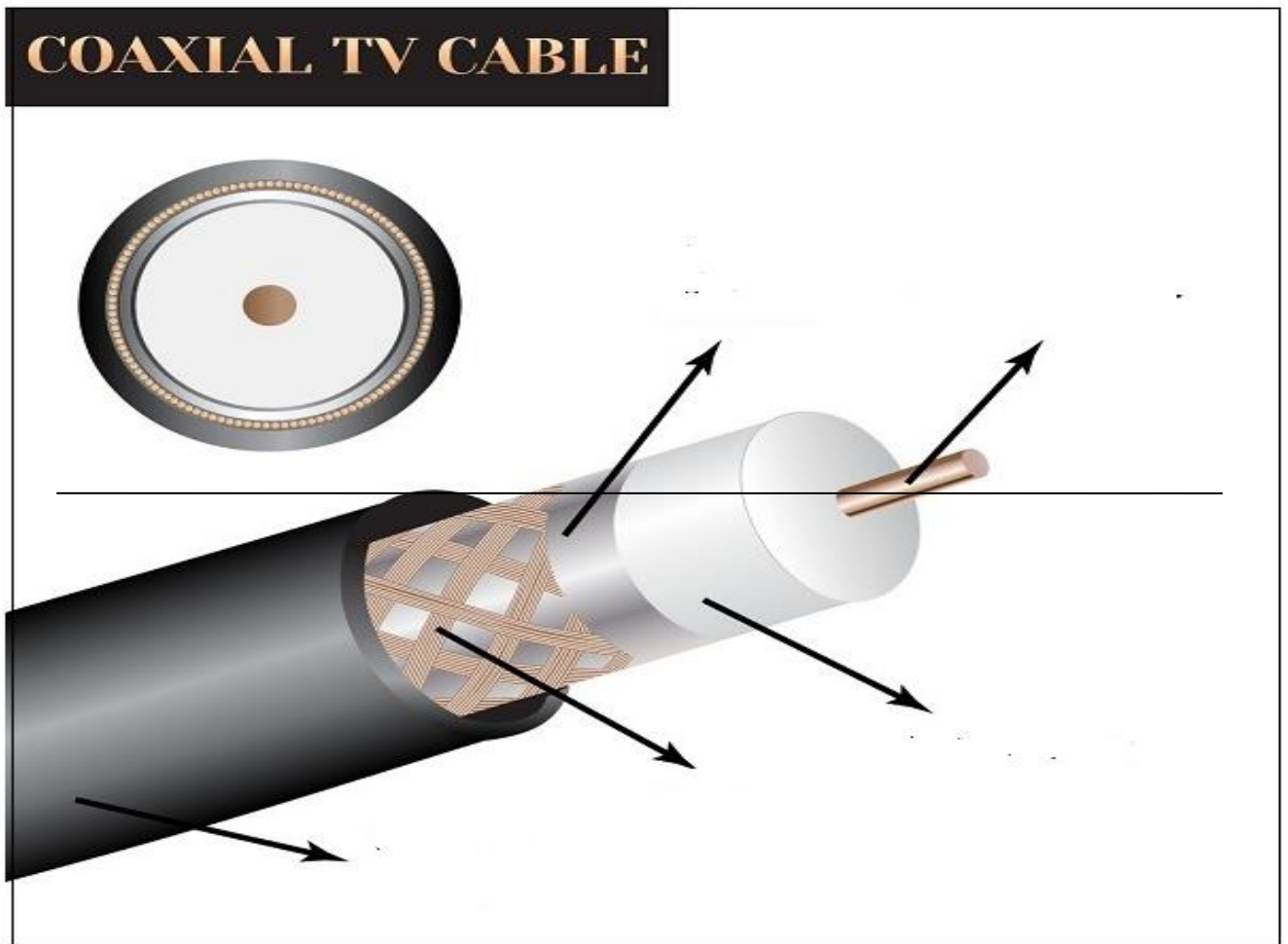
- Define computer network.
- Differentiate between Synchronous transmissions and Asynchronous transmissions.
- Define different types of guided media.

Solve MCQ's

1. In which communication mode data can be sent and received in both directions but not simultaneously?
A. Simplex mode
B. Half-duplex mode
C. Full-duplex mode
D. None
 2. A ----- is a set of rules that governs data communication.
A. Protocols
B. Sender
C. Message
D. Receiver
 3. In _____ transmission, the time interval between two characters is variable and Not fixed.
A. Synchronous
B. Asynchronous
C. Simplex
D. Half-duplex.
 4. In _____ transmission takes place through open air.
A. Guided media
B. unguided media
C. HardDisk
D. Register.
 5. _____ is the path through which message travels from source to destination.
A. Medium
B. Sender
C. Message
D. Transmitter
- Identify transmission modes of network communication:



- Label the following diagram:



Computer Science Week-9

NETWORK COMMUNICATION AND PROTOCOLS

a. Day 1 – Communication devices and network architecture

Unit	Topic	Activities /Worksheet
Unit.5	NETWORK COMMUNICATION AND PROTOCOLS 5.1. Network Communication <ul style="list-style-type: none">• Communication devices:<ul style="list-style-type: none">• Switch, Routers, Gateway• Network architecture<ul style="list-style-type: none">• Client/Server network• Peer to Peer to Network• https://slideplayer.com/slide/5824485/• https://slideplayer.com/slide/7076407/• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-comm-72• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-network-8a	<ul style="list-style-type: none">• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-network-8b• https://quizizz.com/admin/quiz/585b19eb2900fbd133fb02e0/basic-network-architecture

b. Day1 - Home Work

- Complete the quiz given by following the link mentioned below.

<https://study.com/academy/lesson/telecommunications-hardware-routers-modems-switches-bridges-and-gateways.html#lesson>

c. Day 2 – Types of Networking

Unit	Topic	Activities /Worksheet
Unit.5	NETWORK COMMUNICATION AND PROTOCOLS 5.1. Network Communication <ul style="list-style-type: none">• Types of Networking: LAN, WAN, MAN, VPN• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-network-6• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-network-7	https://study.com/academy/practice/quiz-worksheet-types-of-networks.html

d. Day2 - Home Work

- Complete the quiz given by following the link mentioned below

<https://www.proprofs.com/quiz-school/story.php?title=types-computer-networks>

e. Day 3 –Network typologies

Unit	Topic	Activities /Work sheet
Unit .5	NETWORK COMMUNICATION AND PROTOCOLS 5.1. Network Communication: • Network typologies: Star topology, Bus topology , Mesh topology • https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.1&v=cs-network-12 • https://www.tutorialspoint.com/communication_technologies/communication_technologies_network_topologies.htm	https://quizizz.com/admin/quiz/57847d8da30a491f6bab66bd/network-topology

f. Day 3. – Home Work

- Complete the quiz & given by following the link mentioned on next page

https://www.proprofs.com/quiz-school/story.php?title=network-topologies_1

WEEK WISE ASSESSMENT

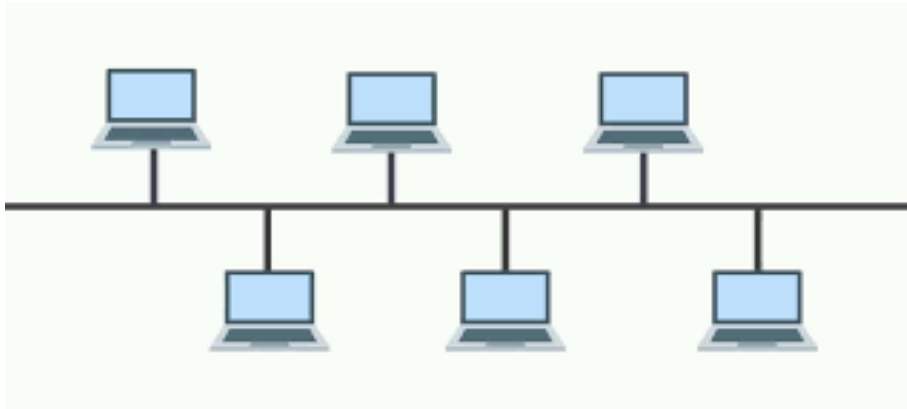
Write Short Answers

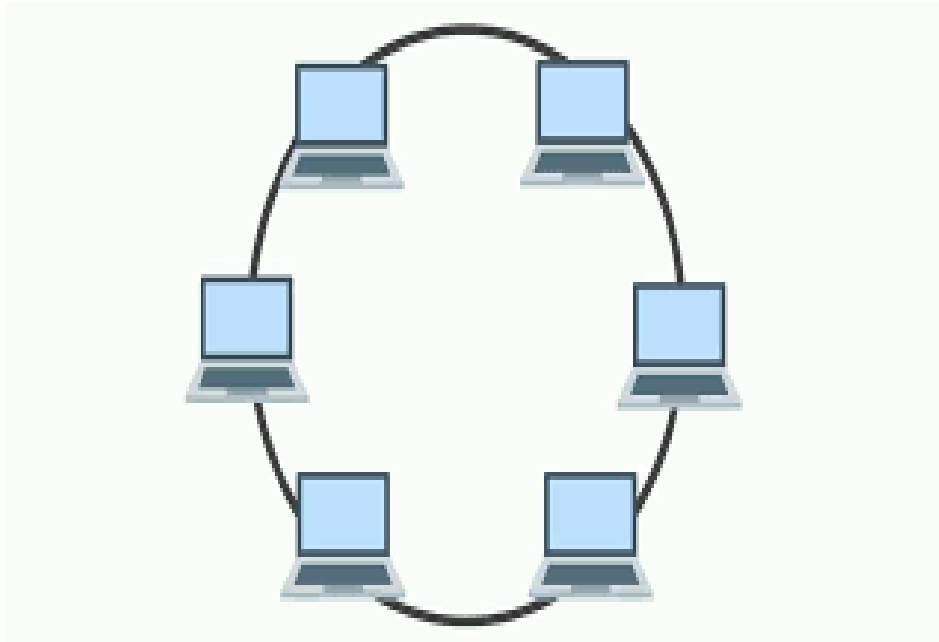
- Differentiate between LAN and WAN.
- Write short notes on router and switch.
- Write major functions of mesh topology and bus topology

Solve MCQ's

1. A switch or network switch also known as _____.
A. Hub
B. transmitter
C. connector
D. None
2. _____ can span form several buildings or a large campus to entire cities.
A. LAN
B. WAN
C. MAN
D. VPN
3. In _____ topology ,each node is directly connected to all the nodes.
A. Mesh
B. star
C. bus
D. ring
4. LAN stands for _____ area network.
A. Link
B. local
C. Logical
D. low.
5. In _____ networks, every computer is capable of playing the role of client, server or both at the same time.
A. Peer-to –Peer
B. Client/server
C. Virtual# .
D. Transmit

- Label the following topologies and write its limitations.





Computer Science Week-10

NETWORK COMMUNICATION AND PROTOCOLS

a. Day1-: Data Communication standards

Unit	Topic	Activities /Work sheet
Unit.5	NETWORK COMMUNICATION AND PROTOCOLS 5.2: Data Communication standards: <ul style="list-style-type: none">• OSI model• Protocols and devices used at various layer of OSI model• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.2&v=cs-network-22• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.2&v=cs-network-31	https://www.examcompass.com/comptia-network-plus-certification-exam-n10-007-osi-layers-qu

b. Day 1 - HomeWork

Answer the quiz given by following the link mentioned below

<https://www.proprofs.com/quiz-school/story.php?title=osi-network-layers-quiz>

c. Day 2- TCP/IP

Unit	Topic	Activities /Work sheet
Unit.5	NETWORK COMMUNICATION AND PROTOCOLS 5.3: TCP/IP <ul style="list-style-type: none">• Transmission Control Protocol / Internet Protocols• TCP/IP Architecture• Circuit Switching• Packet Switching• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.3&v=cs-network-37• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.3&v=cs-network-38• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.3&v=cs-network-40	https://quizizz.com/admin/quiz/5bd1a51c55493a001ac478bc/osi-model-tcp-ip-model

d. Day 2 – Home Work

Answer the quiz given by following the link mentioned below

<https://www.proprofs.com/quiz-school/story.php?title=tcpip-practice-test>

e. Day 3- IP addressing schemes

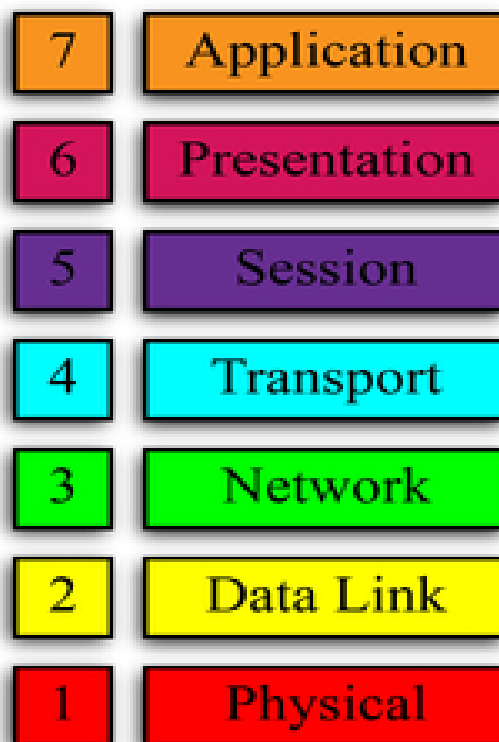
Unit	Topic	Activities /Worksheet
Unit.5	NETWORK COMMUNICATION AND PROTOCOLS 5.3: TCP/IP <ul style="list-style-type: none">IP Addressing Schemeshttps://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.3&v=cs-network-42https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-5.3&v=cs-network-43	https://quizizz.com/admin/quiz/56de9b6503b9a4dc7bff2484/ip-addressing

a. Day 3 – Home Work

Answer the quiz given by following the link mentioned below.

<https://study.com/academy/practice/quiz-worksheet-what-is-an-ip-address.html>

- Write major functions of each layer



Computer Science Week-11

Wireless Communication

a. Day1- Introduction to Wireless communication

Unit	Topic	Activities /Worksheet
Unit .6	Wireless Communication 6.1.Introduction <ul style="list-style-type: none">• Wireless Networks• Advantages and Disadvantages of Wireless Networks• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.1&v=cs-comm-19• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.1&v=cs-comm-20	https://www.proprofs.com/quiz-school/story.php?title=mtkwmiu5ngdh92

b. Day1 – Home Work

Answer the quiz given by following the link mentioned below

. <https://quizizz.com/admin/quiz/5da881f925473f001a69cc22/wireless-networks>

c. Day2- Wireless network terminology

Unit	Topic	Activities /Worksheet
Unit .6	Wireless Communication 6.1.Introduction <ul style="list-style-type: none">• Wireless network terminology: Radio signal , Radio Transceiver Wireless access point, Line of Sight Communication• Short and Long distance wireless communications• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.1&v=cs-comm-18a• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.1&v=cs-comm-73	https://www.proprofs.com/quiz-school/story.php?title=mtkwmiu5ngdh92

d. Day2 – Home Work

Answer the quiz given by following the link mentioned below.

<https://quizizz.com/admin/quiz/5e750851fd1501001b1fbe9d/network-terminology-1>

e. Day 3- Short distance wireless communication

Unit	Topic	Activities /Worksheet
Unit .6	Wireless Communication 6.2.Short distance wireless communication <ul style="list-style-type: none">• Wi-Fi• Wi-Max• Bluetooth• Infra-red• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.2&v=cs-comm-24• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.1&v=cs-comm-22	https://study.com/academy/practice/quiz-worksheet-wireless-communication-via-bluetooth-infrared-more.html

f. Day3 – Home Work

Answer the quiz given by following the link mentioned below.

<https://www.proprofs.com/quiz-school/story.php?title=wireless-communications-quiz>

WEEK WISE ASSESSMENT

Write Short Answers

- Define wireless communication and its advantages.
- What is Wireless access point?
- Define Wi-Fi and Wi-Max.

Solve MCQ's

1. The term _____ refers to the communication or transmission of information over a distance without requiring wires, cables or any other electrical conductors.
A. Radio signals
B. Radio transceivers
C. Wireless
D. Access
2. Wi-Fi stands for _____.
A. Wireless Fidelity
B. Wired Fidelity
C. Wireless Field
D. Wired Field
3. _____ is a device which can transmit and receive signal and have a common circuitry in a single housing.
A. transceiver
B. repeater
C. router
D. network
4. _____ waves are extremely high frequency waves which are used for short range communication.
A. Wi-fi
B. Wi-Max
C. Infra-red
D. Bluetooth
5. All the Radio frequency (RF) system consist of two components, a transmitter and _____.
A. router
B. messgae
C. receiver
D. protocol

Computer Science

Week-12

WIRELESS COMMUNICATION

a. Day 1- Long distance wireless communication

Unit	Topic	Activities /Worksheet
Unit.6	Wireless Communication 6.3.Long distance wireless communication <ul style="list-style-type: none">Cellular communicationGlobal Positioning System: GEO,MEO, LEOhttps://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.3&v=cs-comm-25https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.3&v=cs-comm-26	https://www.proprofs.com/quiz-school/story.php?title=oti5nzc0hm2q

b. Day1 – Home Work

Answer the quiz given by following the link mentioned below

<https://quizizz.com/admin/quiz/5b9ac1df5bd0660019c32e49/long-distance-communication>

c . Day 2 - Mobile device Communication

Unit	Topic	Activities /Worksheet
Unit.6	Wireless Communication 6.4. Mobile device Communication <ul style="list-style-type: none">Requirements of mobile communicationFeatures and limitations of mobile communication systemshttps://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.4&v=cs-comm-29https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.4&v=cs-comm-30	https://study.com/academy/practice/quiz-worksheet-cellular-networks-wireless-communication.html

d. Day2 - Home Work

Answer the MCQ'S given in the following the link below

<https://quizizz.com/admin/quiz/583c54708cbf0c7c3bb603c9/mobile-devices>

e. Day 2 - Architecture for communication over mobile devices

Unit	Topic	Activities /Worksheet
Unit.6	Wireless Communication 6.4. Mobile device Communication <ul style="list-style-type: none">Architecture for communication over mobile devices: Web Protocol stack (Http/TCP/IP) Wireless Markup language Wireless Application Protocolhttps://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.4&v=cs-comm-33https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-6.4&v=cs-comm-35	https://study.com/academy/lesson/communication-wireless-computing-devices-gps-pda-cellular-satellite.html

f. Day3 - Home Work

Answer the quiz given by following the link mentioned below

<https://www.careerride.com/mobile-computing-interview-questions.aspx>

WEEK WISE ASSESSMENT

WRITE SHORT ANSWERS

- What is HTTP?
- What is wireless markup language?
- Define GEO, MEO and LEO.

Solve MCQ's

1. In which earth orbit satellite is placed for navigation?
A. GEO B. MEO
C. LEO D. HEO
2. What is HTTP?
A. Markup language B. protocol mobile phones
C. application layer protocol D. transport layer protocol
3. What is used to create web pages?
A. HTML B. HTTP
C. WAP D. TCP
4. GPS stands for _____.
A. Goal positioning system B. Global positioning system
C. Global positioning software D. Global proof system
5. _____ communication refers to wireless communication systems that divide geographical region into sections called cells.
A. Cellular B. GPS
C. GEO D. MEO

Computer Science Week-13

DATABASE FUNDAMENTALS

a. Day 1 - Introduction to Database

UNIT	TOPIC	ACTIVITY
Unit.7	DATABASE FUNTAMENTLS 7.1. Introduction to Database <ul style="list-style-type: none">Data and InformationFile management systemDatabasehttps://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-7.1&v=cs-database-4https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-7.1&v=cs-database-9	https://www.mcqslern.com/cs/db/mcq/introduction-to-dbms-multiple-choice-questions-answers.php

b. Day 1 –Homework

Answer the quiz given by following the link mentioned below

<https://quizizz.com/admin/quiz/5d5a2766977033001d9d4326/introduction-to-databases>

c. Day 2 - Database management system (DBMS)

UNIT	TOPIC	ACTIVITY
Unit.7	DATABASE FUNTAMENTLS 7.1. Introduction to Database <ul style="list-style-type: none">Database management system (DBMS)Advantages of DBMS over file management systemRole of Database administrator(DBA)https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-7.1&v=cs-database-72https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-7.1&v=cs-database-28	https://study.com/academy/practice/quiz-worksheet-features-of-database-administration-security.html

c. Day 2 –Homework

Answer the quiz given by following the link mentioned below

<https://quizizz.com/admin/quiz/58037bd0742600b44f91b6e1/database-administration-and-security-quiz-2>

d. Day 3 - Database models

UNIT	TOPIC	ACTIVITY
Unit.7	<p>DATABASE FUNTAMENTLS</p> <p>7.1. Introduction to Database</p> <ul style="list-style-type: none">• Database models: Hierarchical database model, network database model, Relational database model, Object- oriented database models, object relational database model• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-7.1&v=cs-database-15• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-7.1&v=cs-database-18	<p>https://www.proprofs.com/quiz-school/story.php?title=data-modeling-test1</p>

d. Day 2 –Home work

Answer the quiz given by following the link mentioned below

<https://quizizz.com/admin/quiz/5d20c311a54b3a001d905227/database-management-chapter-2-week-3-data-models>

WEEK WISE ASSESSMENT

Write Short Answers

- Differentiate between data and information.
- What is Database management system?
- Write advantages of DBMS.

Solve MCQ's

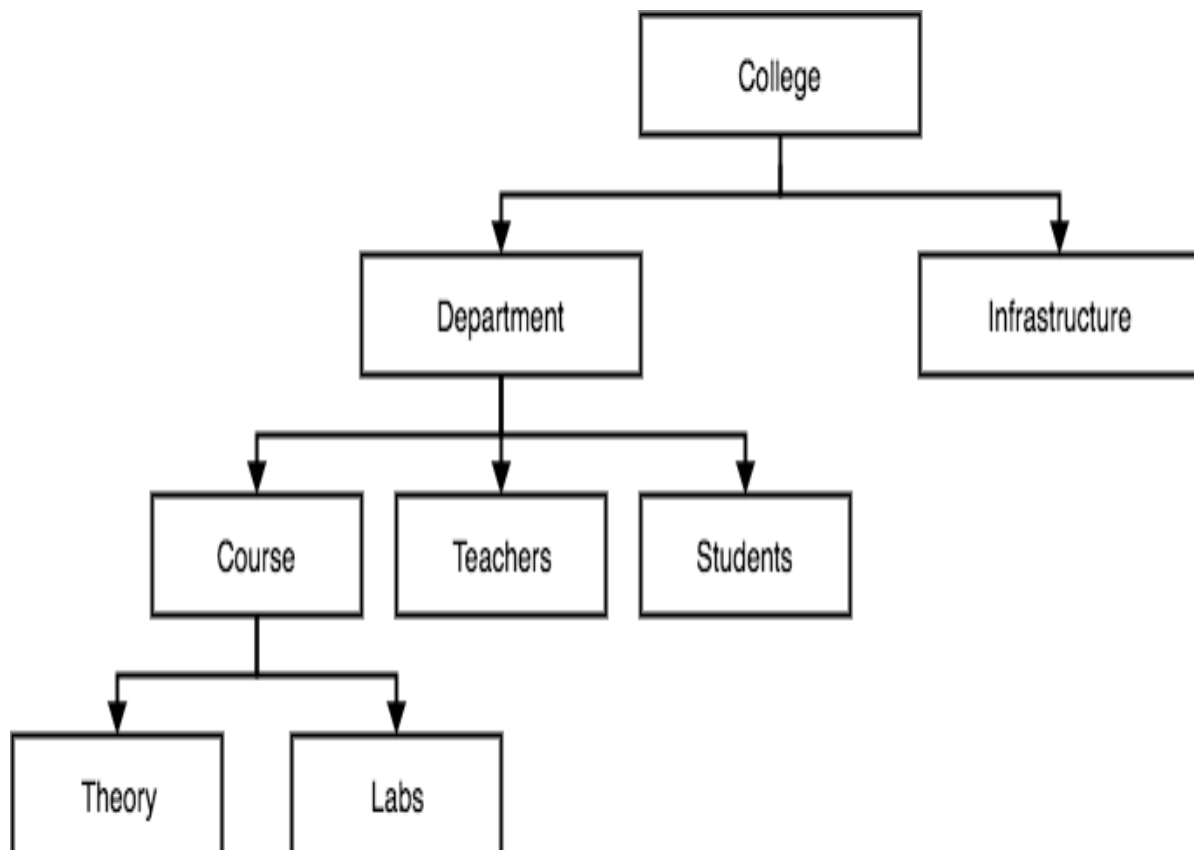
6. Duplication of data in different files is called _____.
- A. Data inconsistency B. Data redundancy
C. invalid D. Data overflow
7. If data is not updated in a file in file based data management systems, what types of problems will it cause?
- A. Data inconsistency B. Data redundancy
B. invalid D. Data overflow
8. _____ is the person responsible for supervising the database and the use of DBMS in an organization.
- A. Database manger B. Database administrator
C. Database person D. Database programmer
9. Object oriented database are also called _____.
- A. Object management systems B. Object database management system
C. Object management D. relation
10. In which database model data is organized in tree like structure.
- A. Hierarchical database B. network database
C. Relational database D. Object oriented database

- Label the following database models.

student_id	name	age
1	Akon	17
2	Bkon	18
3	Ckon	17
4	Dkon	18

subject_id	name	teacher
1	Java	Mr. J
2	C++	Miss C
3	C#	Mr. C Hash
4	Php	Mr. P H P

student_id	subject_id	marks
1	1	98
1	2	78
2	1	76
3	2	88



Computer Science Week-14/ Self Study

DATABASE FUNTAMENTLS

a. Day 1- Database languages

UNIT	TOPIC	ACTIVITY
Unit.7	DATABASE FUNTAMENTLS 7.1. Introduction to Database <ul style="list-style-type: none">Database languages: DDL, DML, DCLhttps://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-7.1&v=cs-database-20	https://sabaq.pk/chapter-page.php?vg=federal-computer%20science-11th&vsq=federal-computer%20science-11th-7

b. Day 1- Homework

Click on the quiz below.

<https://study.com/academy/practice/quiz-worksheet-data-definition-language.html>

c. Day 2- Basic database terminologies

UNIT	TOPIC	ACTIVITY
Unit.7	DATABASE FUNTAMENTLS 7.2. Basic database terminologies <ul style="list-style-type: none">https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-7.2&v=cs-database-31https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-7.2&v=cs-database-59a	https://sabaq.pk/chapter-page.php?vg=federal-computer%20science-11th&vsq=federal-computer%20science-11th-7

d. Day 2- Homework

Answer These Questions

<https://www.proprofs.com/quiz-school/story.php?title=mtg0nty2mwu25h>

e. Day 3- Planning a database:

UNIT	TOPIC	ACTIVITY
Unit.7	DATABASE FUNTAMENTLS 7.3.Planning a database: Problem identification /Definition, Feasibility study, Requirement analysis, identify entities and attributes, Assigning names to tables and columns <ul style="list-style-type: none">• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-7.3&v=cs-database-76• https://sabaq.pk/video-page.php?sid=federal-computer%20science-11th-7.3&v=cs-database-79	https://sabaq.pk/chapter-page.php?vq=federal-computer%20science-11th&vsq=federal-computer%20science-11th-7

f. Day 3- Homework

Click on the quiz below to answer questions

<https://study.com/learn/database-quizzes.html>

WEEK WISE ASSESSMENT

Write Short Answers

- What is a relational database?
- Define primary and secondary key.
- Define three database languages.
- Write down the steps involved in planning a database.

Solve MCQ's

1. ----- is a computer language for defining different data structures.
A. Data manipulation language B. Data definition language
C. Data Control languages D. Data overflow
2. DCL stands for _____.
A. Data combine language B. Data collection language
B. Data computer language D. Data Control languages
3. A record is also called _____.
A. attribute B. entity
C. property D. tuple
4. An attribute is also called _____.
A. record B. entity
C. Field D. relation
5. The purpose of _____ study is to find one or more solutions of the problem and to suggest the most desirable and economical solution.
A. Requirement analysis B. Feasibility solution
C. Problem identification D. None of them

- Label the following diagram:

Id	Name	Section	DoB	Gender
1	Rakib	A	10/03/93	Male
2	Nila	B	09/02/92	Female
3	Ashek	C	08/01/91	Male

موسم گرما کی تعطیلات کا کام
برائے نصابی سال ۲۰۲۰
اسلامیات: گیارہویں جماعت
کینٹ پبلک ایجوکیشن سسٹم

اسلامیات

عمومی مقاصد

طلبہ کی علمی و فکری استعداد کو اجاگر کرنا انا احیک ایضا سلام سے آگاہی دینا تامہایات قرآنیہ اور احادیث مبارکہ سے ربط اور ہم آہنگی پیدا کرنا na23 کی دینی و اخلاقی تربیت میں بہتری لائی جا سکے اور انہیں معاشرے کا کارآمد بنایا جا سکے

طریقہ تدریس

کتابیں استفہامی میں اور استقرائی طریقہ تدریس سے مدد لی جائے گی

تاریخ اور جائزہ

تازہ تحریر و تقریر پیر کا طریقہ کار چار طلبہ کی جائزے کے لیے استعمال کیا جائے گا جن میں ویڈیوز کتاب اور نوٹ سے ملتی ہے

کتاب

اسلامیات لازمی

ہفتہ واری پلان پہلا ہفتہ

<u>تفصیل</u>	<u>عنوان</u>	<u>دن</u>
مذکورہ عنوان کے تحت اسلامی تشخص کا اظہار کس طرح سے کیا جا سکتا ہے انہیں <u>ورك شيث</u> میں ظاہر کیا گیا ہے	باب دوم <u>اسلامی تشخص</u>	<u>پہلا دن</u>
باب دوم کاسب سے اہم عنوان ارکان اسلام ہے ، اس کے تحت اسلام کی عملی پہلوؤں کی وضاحت کی جاتی ہے یہاں سب سے اہم عبادات ہیں جن میں نماز، روزہ ، حج ، زکوٰۃ وغیرہ شامل ہیں ' ان کی تشریح و تفہیم	باب دوم <u>اسلامی تشخص، ارکان اسلام</u>	<u>دوسرا دن</u>
کلمہ شہادت کی تشریح اور اس کی دونوں اقسام کی وضاحت ، بمع عقیدہ توحید او ر عقیدہ رسالت <u>ورك شيث</u>	باب دوم <u>اسلامی تشخص، ارکان اسلام</u> <u>کلمہ شہادت</u>	<u>تیسرا دن</u>

پہلا ہفتہ

پہلا ہفتہ : پہلا دن ; ورك شيث

سوال نمبر 1- درست جواب پر نشان لگائیں

- ا. تشخص سے کیا مراد ہے
- ب. اسلامی تشخص کی پہچان عموماً ان چیزوں سے ہوتی ہے 3 ، 4 ، 5
- ج. تشخص کا لفظ اس سے بنا ہے پہچان ، شخصیت ، نشانی ، ظاہر باطن

مختصر سوالات

- ا. اسلامی تشخص سے کیا مراد ہے اس کی وضاحت کریں
- ب. اسلامی تشخص کی پہچان کن چیزوں سے ہوتی ہے

پہلا ہفتہ : دوسرا دن : ورك شيث

سوال 1- درج ذیل الفاظ کے معنی تحریر کریں:

معنی	الفاظ	نمبر شمار
	اشهد	1
	لا اله	2
	عبده	3
	عقيدہ	4
	توحيد	5

سوال نمبر 2 – ارکان اسلام کے نام اور مختصر وضاحت لکھیں

پہلا ہفتہ : تیسرا دن : ورك شيث

سوال نمبر 1 - کلمہ توحيد بمع ترجمہ عربی و اردو تحریر کریں اور پھر اس کے دونوں حصوں کی وضاحت کریں

دوسرا ہفتہ
ہفتہ واری پلان

تفصیل	عنوان	دن
مذکورہ عنوان کے تحت عبادت کی ادائیگی کو کس طرح سے کیا جا سکتا ہے نیز نماز کی اہمیت فرضیت اور اقسام کے بارے میں بھی آگہی دی جائیگی نماز کے فوائد بھی بتائے جائیں گے۔ ورک شیٹ سے جائزہ لیا جائے گا۔	باب دوم ارکان اسلام ، صلوٰۃ	پہلا دن
صوم کے لغوی معنی ، اصطلاحی معنی ، اقسام فرضیت و اہمیت نیز مفسدات صوم کے بارے میں وضاحت دی جائیگی روزے کے فوائد بیان کرئے جائیں گے۔ ورک شیٹ سے جائزہ لیا جائے گا۔	باب دوم ارکان اسلام ، صوم	دوسرا دن
حج کے لغوی و اصطلاحی معنی اور عمرہ و حج کا فرق ، طریقہ کار اور مناسک کا آگہی دی جائیگی اور ان کے فوائد پر گفتگو ہوگی۔ ورک شیٹ سے جائزہ لیا جائے گا۔	باب دوم ارکان اسلام ، حج	تیسرا دن

دوسرا ہفتہ : پہلا دن ; ورک شیٹ

سوال نمبر 1- درست جواب پر نشان لگائیں
د. نماز کونسی عبادت ہے
ذہنی ، جسمانی ، مالی ، اخلاقی
ہ. فرض نماز کی بنیادی اقسام کتنی ہیں ؟
2، 4، 5، 8
و. فرض نمازیں اتنی ہیں
پانچ ، چھ ، آٹھ ، دس

مختصر سوالات

- ا. لفظ صلوٰۃ کی وضاحت کریں -
ب. نماز کے فوائد تحریر کریں -

دوسرا ہفتہ : دوسرا دن ; ورک شیٹ

سوال 1- درج ذیل الفاظ کے معنی تحریر کریں:

نمبر شمار	الفاظ	معنی
1	صوم	
2	اجزی	
3	قول الزور	
4	شہر رمضان	
5	کعب	

سوال نمبر 2 - رمضان اور روزے کے بارے میں آپ کیا جانتے ہیں؟

دوسرا ہفتہ : تیسرا دن : ورك شيث

سوال نمبر 1 - حج اور عمرہ کا فرق بتائیے نیز انکے عمومی اثرات تحریر کریں۔

تیسرا ہفتہ ہفتہ واری پلان

تفصیل	عنوان	دن
زکوٰۃ کے لغوی و اصطلاحی معنی و مفہوم ، فرضیت و اہمیت، تاکید ، طریقہ کار مصارف زکوٰۃ زکوٰۃ نہ دینے پر وعید ورك شيث سے جائزہ لیا جائے گا۔	باب دوم ارکان اسلام ، زکوٰۃ	پہلا دن
جہاد کے لغوی و اصطلاحی معنی و مفہوم ، اقسام اور موجودہ دور میں اس کی تطبیق - قتال فی سبیل اللہ اور اس کے فضائل نیز اقدامی و دفاعی جہاد - ورك شيث سے جائزہ لیا جائے گا۔	باب دوم جہاد	دوسرا دن
اللہ و رسول اللہ صلی اللہ علیہ و آلہ وسلم سے محبت و اطاعت ، محبت و اطاعت کا مفہوم، اس کا استحقاق ، فضیلت - ورك شيث سے جائزہ لیا جائے گا۔	باب دوم اللہ اور رسول اللہ علیہ السلام کی محبت و اطاعت	تیسرا دن

تیسرا ہفتہ : پہلا دن : ورك شيث

سوال نمبر 1- درست جواب پر نشان لگائیں

- زکوٰۃ ایک عبادت ہے
- مالی ، بدنی ، اخلاقی ، عمومی
- زکوٰۃ فیصد کے اعتبار سے ادا کی جاتی ہے
- ڈھائی ، پونے تین ، آٹھ ، دس
- مصارف کوٰۃ کی تعداد اتنی ہے

8، 9، 5،

مختصر سوالات

- زکوٰۃ ادا نہ کرنے پر کیا وعید بیان ہوئی ہے؟
- مصارف زکوٰۃ کے صرف نام لکھیں

تیسرا ہفتہ : دوسرا دن : ورك شيٹ

سوال 1- درج ذیل الفاظ کے معنی تحریر کریں:

معنی	الفاظ	نمبر شمار
	جہاد	1
	قتال	2
	طاغوت	3
	بنیان مرصوص	4
	اضعف الأيمان	5

سوال نمبر 2 – کسی ایک پر مختصر نوٹ لکھیں (اقدامی جہاد) (دفاعی جہاد) (علمی جہاد)

تیسرا ہفتہ : تیسرا دن : ورك شيٹ

اللہ و رسول اللہ علیہ السلام کی محبت پر قرآن و حدیث کی روشنی میں نوٹ لکھیں

چوتھا ہفتہ

ہفتہ واری پلان

تفصیل	عنوان	دن
حقوق کی وضاحت ، معنی و مفہوم ، اقسام حقوق ، والدین کی اہمیت ، فضیلت ، حقوق - اولاد کے حقوق فضیلت ، بشارت ورك شيٹ سے جائزہ لیا جائے گا۔	باب دوم حقوق العباد ، والدین و اولاد کے حقوق	پہلا دن
نکاح ، طریقہ کار زوجین کی اہمیت ، فضیلت ، حقوق ورك شيٹ سے جائزہ لیا جائے گا۔	باب دوم حقوق العباد، زوجین کے حقوق	دوسرا دن
صلہ رحمی ، خونی رشتہ داریاں ، رشتہ داروں کے حقوق ، اہمیت - اساتذہ کے حقوق ، اہمیت ورك شيٹ سے جائزہ لیا جائے گا۔	باب دوم حقوق العباد ، رشتہ دار و اساتذہ کے حقوق	تیسرا دن

جوتھا ہفتہ : پہلا دن ; ورک شیٹ

سوال نمبر 1- درست جواب پر نشان لگائیں
ز. حقوق کی بنیادی طور پر اتنی اقسام ہیں
2، 8، 8، 12

ح. انسان کے دنیا میں آنے کا ظاہری سبب یہ ہیں
اسپتال ، نیکیاں ، والدین ، ان میں سے کوئی نہیں

ط. کسی بھی مسلمان کے لئے جنت یا جہنم کے دو درزے ہیں جو یہ ہیں
پڑوسی ، پیر ، والدین ، زوجین

مختصر سوالات

- ہ. شریعت کے مطابق والدین کی ذمہ داریاں تحریر کریں
و. اولاد کے بنیادی ابتدائی حقوق کون کون سے ہیں؟

جوتھا ہفتہ : دوسرا دن ; ورک شیٹ

- سوال 1- زوجین کون ہوتے ہیں؟
سوال نمبر 2 - زوجین کے حقوق و ذمہ داریاں تحریر کریں
سوال نمبر 3 - مندرجہ ذیل کے معنی لکھیں

نمبر شمار	الفاظ	معنی
1	احسان	
2	قائمان	
3	اہل	
4	عاشروہن	
5	بالمعرف	

جوتھا ہفتہ : تیسرا دن ; ورک شیٹ

سوال نمبر 1 - قرابتدار کون ہوتے ہیں؟

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سوال نمبر 2 - اساتذہ کی اہمیت پر روشنی ڈالیں

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پانچواں ہفتہ
ہفتہ واری پلان

تفصیل	عنوان	دن
پڑوس کی اہمیت، اقسام، حقوق - غیر مسلموں کی تعریف، اقسام حقوق ورك شيٹ سے جائزہ لیا جائے گا۔	باب دوم حقوق العباد، پڑوسیوں اور غیر مسلموں کے حقوق	پہلا دن
اخلاق حسنہ کی تعریف، دیانتداری و ایفائے عہد کا مفہوم، معاشرے پر اثرات ورك شيٹ سے جائزہ لیا جائے گا۔	باب دوم محاسن اخلاق، دیانتداری و ایفائے عہد	دوسرا دن
سچائی اور انصاف کی اہمیت نیز معاشرے پر اس کے اثرات ورك شيٹ سے جائزہ لیا جائے گا۔	باب دوم محاسن اخلاق، صدق و عدل	تیسرا دن

پانچواں ہفتہ : پہلا دن ; ورك شيٹ

سوال نمبر 1- درست جواب پر نشان لگائیں
ي. پڑوسیوں کی اتنی اقسام ہیں
3، 5، 8، 9

ك. عموماً انسان کی مدد کے وقت یہ سب سے پہلے دستیاب ہوتا ہے
پڑوسی، کزن، قرابتدار، دوست
ل. اچھا پڑوس ايک ہے
نعمت، روحانیت، نشانی، انعام

مختصر سوالات

ز. پڑوسی کی حقوق بیان کریں

پانچواں ہفتہ : دوسرا دن ; ورك شيٹ

سوال 1- اخلاق حسنہ پر روشنی ڈالیں

سوال نمبر 2 - ان میں سے کسی ايک کی مختصر وضاحت لکھیں (دیانتداری)(ایفائے عہد)

پانچواں ہفتہ : تیسرا دن ; ورك شيٹ

سوال نمبر 1 - صدق و عدل میں سے کسی ايک کے معاشرے پر اثرات تحریر کریں

چھٹا ہفتہ
ہفتہ واری پلان

تفصیل	عنوان	دن
قانون کا مفہوم ، اقسام اثرات ورک شیٹ سے جائزہ لیا جائے گا۔	باب دوم محاسن اخلاق ، احترام قانون	پہلا دن
حلال اور حرام کی آگہی ، فضیلت ورک شیٹ سے جائزہ لیا جائے گا۔	باب دوم محاسن اخلاق ، کسب حلال	دوسرا دن
ایثار اور فیاضی کا مفہوم ، فرق ورک شیٹ سے جائزہ لیا جائے گا۔	باب دوم محاسن اخلاق ، ایثار	تیسرا دن

چھٹا ہفتہ : پہلا دن : ورک شیٹ

سوال نمبر 1- درست جواب پر نشان لگائیں
م۔ قانون سے کیا مراد ہے
قواعد و ضوابط ، ہدایات ، اشارے ، تعمیل
ن۔ اسلامی قانون کو کہتے ہیں
نفقہ ، فقہ ، حدیث ، ایمان
س۔ جن قوانین کی خلاف ورزی کی سزا من جانب اللہ مقرر ہو وہ — ہیں
حدود و قصاص ، ڈاکہ ، نقصان ، جیب کاٹنا

مختصر سوالات

اسلامی قوانین کا تعارف پیش کریں

چھٹا ہفتہ : دوسرا دن : ورک شیٹ

سوال نمبر 2 – کسب حلال کے بارے واقعہ لکھیں

چھٹا ہفتہ : تیسرا دن : ورک شیٹ

سوال نمبر 1 - قربانی کیا ہوتی ہے؟

موسم گرما کی تعطیلات کا کام

برائے نصابی سال ۲۰۲۰

گیارہویں جماعت

کینٹ پبلک ایجوکیشن سسٹم

تدریس اردو
نصاب برائے میعاد اول تعلیمی سال ۲۰۲۰
گیارہویں جماعت
فہرست

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۲	اگست ۲۰۲۰	نواں ہفتہ	تعلیم بالغاں	اصنافِ ادب
۳	اگست ۲۰۲۰	دسواں ہفتہ	داروغہ جی کی پانچوں گھی میں اور سر کڑاھی میں، نصیحت اخلاقی	اصنافِ ادب منظوم ادب
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۵	اگست و ستمبر ۲۰۲۰	بارہواں ہفتہ	جلوہ سحر پرانا کوٹ	منظوم ادب
۶	ستمبر ۲۰۲۰	تیرواں ہفتہ	غزلیات	منظوم ادب
۷	ستمبر ۲۰۲۰	چودہواں ہفتہ	غزلیات داغ دہلوی نظم: یہ سڑکیں	منظوم ادب

ہفتہ وار سرگرمیاں

نمبر شمار	تدریسی ہفتہ	سبق	سرگرمی
۱	آٹھواں ہفتہ	کچھ ادب کے بارے میں	فعل کی فاعل سے مطابقت کے حوالے سے جملے درست کر کے لکھیں۔ 1- میری کتابیں قلم اور کاپیاں سب کچھ کھو گیا۔ 2- چار کپ، ایک گلاس اور دو پلیٹیں ٹوٹ گئے۔ 3- شاہ جہاں نے عمارتیں بنوائیں۔ 4- ہم نے پہاڑ کے پتھروں کو کالے پایا۔ 5- فضول خرچی کی وجہ سے اس کا سرمایہ اور احترام لٹ گئے۔
۲	نواں ہفتہ	تعلیم بالغاں	تنقید کی تعریف اور دوناقدین کے نام لکھیے۔ معاورہ کی تعریف کریں اور کوئی سے پانچ معاورے لکھیں۔ جملے بنائیے۔ سر پر چڑھنا، رحم و کرم ہونا، ستیاناس کرنا،۔۔ ازراہ مراحت۔۔ آسمان سر پر اٹھانا۔
۳	دسواں ہفتہ	نصیحت اخلاقی	الفاظ کے معانی لکھیے۔ آڑی ڈالنا، اگرائی، باقیات، بچہ پارٹی، بڑی مچھلی، فلاننگ کوچ جملوں میں استعمال کریں۔ نازاں، ظہور، مکروزور، کسب کمال،۔۔ اہل شعور
۴	گیارہواں ہفتہ	خوبصورت بلا	سبق میں موجود امدادی افعال الگ کر کے لکھیے عورت کی تعریف اپنے الفاظ میں کیجیے۔
۵	بارہواں ہفتہ	جلوہ سحر	جملے بنائیے۔ یکایک، سعادت، صحت افزیں، جلوہ گاہ، جوئبار، ابشار
۶	تیرواں ہفتہ	پرانا کوٹ	درج ذیل کے چار چار ہم قافیہ الفاظ لکھیے۔ ایجاد، گرداب، نگر، قلم، خار پہلی غزل کے ردیف تحریر کیجئے دوسری غزل کے قافیوں کی نشاندہی کیجئے
۷	چودہواں ہفتہ	غزلیات مرزا اسد اللہ غالب غزلیات داغ دہلوی نظم: یہ سڑکیں	تراکیب کو جملوں میں استعمال کریں کم نگاہی، حیا، رشک مسیحا، دست دعا، اہل وفا، فنا درج ذیل کے چار چار ہم قافیہ الفاظ لکھیں۔ ایجاد، گرداب، نگر، قلم، خار

ہفتہ وار تفویض کار

نمبر شمار	تدریسی ہفتہ	سبق	تفویض کار
۱	آٹھواں ہفتہ	کچھ ادب کے بارے میں	مختصر جواب دیجیئے۔ عبادت بریلوی نے اس مضمون میں کن زاویوں سے ادب کی افادیت پر روشنی ڈالی ہے؟ متن کی مدد سے خالی جگہ پر کیجیئے۔ انسان کے اندر _____ کا احساس سب سے زیادہ قوی ہے۔ زمانے کی _____ اس کو زیادہ بناتی سنوارتی ہے۔ ان جذبات و احساسات کو _____ نے خود اپنے تک محدود کیوں نہیں رکھا۔ ادب سے انسان کی _____ کی ایک بہت بڑی وجہ یہ بھی ہے۔ بہر حال یہ _____ کے ابتدائی نقوش تھے۔ ادب کے قدم ترقی کی _____ پر برابر آگے بڑھتے گئے۔ احساس جمال کا ہونا ہر _____ کے اندر لازمی ہے۔
۲	نواں ہفتہ	تعلیم بالغاں	مختصر جوابات دیجیئے۔ مدرسہ تعلیم بالغاں کہاں واقع تھا؟ مولوی صاحب قرض کیوں نہ واپس کر سکے؟ اس ڈرامے میں وزیروں پر کیا طنز کیا گیا ہے؟
۳	دسواں ہفتہ	داروغہ جی کی پانچوں گھی میں اور سر کڑاہی میں نصیحت اخلاقی	فسانہ آزاد۔ مکمل ناول پڑھنے کے بعد خوجی کے کردار پر جامع نوٹ لکھیئے۔ نظم نصیحت اخلاقی کا خلاصہ لکھیئے
۴	گیارہواں ہفتہ	خوب صورت بلا مکاتیب غالب	سوال: 'مقفی نثر کسے کہتے ہیں؟ سبق سے پانچ مثالیں لکھیئے غالب کے دوسرے خط کا خلاصہ اپنے الفاظ میں لکھیئے۔
۵	بارہواں ہفتہ	نظم: جلوہ سحر پرانا کوٹ	نظم جلوہ سحر میں پیش کیا گیا صبح کا منظر اپنے الفاظ میں لکھیئے پرانا کوٹ میں شاعر نے صنعت تضمین کا استعمال کیا ہے۔ کوئی سے تین اشعار تحریر کریں جن میں صنعت تضمین کا استعمال کیا گیا ہو۔
۶	تیرواں ہفتہ	غزلیات مرزا اسد اللہ خان غالب	مندرجہ ذیل اشعار کی تشریح کیجیئے: دائم پڑا ہوا ترے در پر نہیں ہوں میں خاک ایسی زندگی پہ کہ پتھر نہیں ہوں میں نکلنا خلد سے آدم کا سنتے آئے ہیں، لیکن بہت بے آبرو ہو کر تیرے کوچے سے ہم نکلے
۷	چودہواں ہفتہ	غزلیات داغ دہلوی نظم: یہ سڑکیں شاعر: سید ضمیر جعفری	داغ کی شاعری پر مختصر نوٹ لکھیں۔ اس نظم کی تلمیحات کی وضاحت کریں۔ پارچہ: نظم میں شہر کی سڑکوں کا نقشہ کس طرح کھینچا ہے وضاحت کیجیئے۔

مشقی پارچہ

مشقی پارچہ نمبر ۱

سبق کا عنوان: کچھ ادب کے بارے میں
تنقید کی تعریف اور دوناقدین کے نام لکھئے۔
جملوں میں اس طرح استعمال کریں کہ مفہوم واضح ہو جائے۔
خلد بریں، سوادت نشان، اب بقاء، نا خدا، عنایت، پیادہ پا

مشقی پارچہ نمبر ۲

سبق کا عنوان: تعلیم بالغاں

مصنف کا نام: معین الدین

متن کے مطابق خالی جگہ پر کیجئے
دیکھ نے ہتھیار رکھ دیے ہیں۔
چپڑاسی _ سے ماچس مانگتے ہیں۔
کوئی چہرا دکھا رہا ہے کوئی دکھا رہا ہے۔
ہے ارے! جملہ کاٹنے کو کہا تھا کاٹ دیا۔
مدرسے کو شاگردوں کا _ ہو گیا ہے۔
استاد اور شاگرد کے درمیان بے ہنگم ٹریفک سے پیدا ہونے والے مسائل پر مکالمہ تحریر کریں۔

<https://youtu.be/CRdrYOjEoEE>
<https://youtu.be/cA04Hmk2Lpk>
<https://youtu.be/KjZJIPdvJXE>

مشقی پارچہ نمبر ۳

سبق داروغہ جی کی پانچوں گھی میں اور سر کڑاھی میں کا خلاصہ اور مرکزی خیال تحریر کریں۔

<https://youtu.be/0Vuu5Cn2bT0>
<https://youtu.be/NPxmIkTg-6Y>
<https://youtu.be/gMLCsC7F-PE>
<https://youtu.be/NjEQ6-8yPOw>

نظم نصیحت اخلاقی کا مرکزی خیال لکھیئے اور شاعر کا نام تحریر کریں۔

https://youtu.be/ntg-hLQYK_E
<https://youtu.be/D-QmolJCpF0>

مشقی پارچہ نمبر ۴

سبق کا عنوان: خوب صورت بلا

استعارہ کی تعریف کیجئے اور مثالوں سے وضاحت کریں۔

<https://youtu.be/k-GqW1CWIVM>

<https://youtu.be/MGsUlnl-Yc>

<https://youtu.be/8wOb6z4Xv1o>

مکاتیب غالب:

اپنے دوست کو خط لکھیئے اور اپنے علاقے کے حالات سے آگاہ کریں۔

https://youtu.be/F-Qx_gZ-F5A

https://youtu.be/Xx-PnYS_SFY

مشقی پارچہ نمبر ۵

نظم کا عنوان جلوہ سحر: کنایہ کی تعریف کریں اور مثالیں دیں۔

<https://youtu.be/QTNGCx-5C98>

<https://youtu.be/hScQMUXrOJc>

<https://www.youtube.com/playlist?list=RDCMUC9s3SbBg4oSkhd4CHoALqgA&feature=share&playnext=1>

نظم پرانا کوٹ کا مرکزی خیال لکھیئے۔

https://youtu.be/Nvmy7i6_yKY

<https://youtu.be/ZgwfFDTzrn0>

مشقی پارچہ نمبر ۶

سبق کا عنوان مکاتیب غالب:

سوال: غالب کے کلام کی نمایاں خصوصیات تحریر کریں۔

مندرجہ ذیل تراکیب کو جملوں میں استعمال کیجئے

حرف مکرر، لعل و زمرد، مہرو ماہ، کمتر، عقوبت، گردش مدام، بہرم کھلنا، چشم تر

<https://youtu.be/T4pokNMrZzQ>

<https://youtu.be/0Xk-KshUrOY>

<https://youtu.be/jYqpP8o7ExQ>

مشقی پارچہ نمبر ۷

غزلیات - داغ دہلوی

موزوں الفاظ کی مدد سے خالی جگہ پر کریں۔

۱۔ آئینہ اپنی.....سے نہ جدا ہونے دو۔
نظر۔ ، جگر۔ ، اثر۔ ، سفر

۲۔.....ملنے ہی کہوں خاک حقیقت دل کی۔
بال،،۔ باتھ،،۔ انکھ،،۔ ناک

۳۔ جب سنا.....کوئی دم فنا ہوا ہے۔

میر،۔ درد،۔ ذوق،۔ داغ

۴۔ تم دل.....بنے رشک مسیحا کیسے۔

آرام۔ آزار آویز۔ افروز

۵۔ اس ستمگر نے.....سے کہا ہونے دو۔

اشارے۔ اشرارے۔ ستارے۔ نظارے

https://youtu.be/y6IpxUy0_SI
<https://youtu.be/RgigKOKOgtU>
<https://youtu.be/ya0kImM8Ad>

نظم کا عنوان:- یہ سڑکیں

شاعر: سید ضمیر جعفری

نظم میں شہر کی سڑکوں کا نقشہ کس طرح کھینچا ہے وضاحت کیجیئے۔

<https://youtu.be/Ug5iJw9JtvU>
<https://youtu.be/ZgwFDTzrn0>
<https://youtu.be/bhIg846s3Y8>

SUMMER VACATION HOMEWORK 2020

CLASS: XI (FEDERAL BOARD)

GENERAL KNOWLEDGE

GENERAL KNOWLEDGE **HISTORY AND GEOGRAPHY**

WEEK 1 **HISTORY**

Important Link: <https://www.slideshare.net/kifayatshahani/constitution-of-pakistan-1956>

1. What was the official language declared in 1956 constitution?
 - a) English
 - b) Urdu
 - c) Bengali
 - d) Both b and c

2. Who was the first president of the constituent assembly of Pakistan?
 - a) Liaqat Ali Khan
 - b) Quaid-e-Azam
 - c) Moulvi Tameez-ud-din
 - d) Sardar Abdur Rab Nishtar

3. How many years after Independence did Pakistan get its first constitution?
 - a) 5 years
 - b) 7 years
 - c) 9 years
 - d) 11 years

4. Who was Mohammad Ali Bogra?
 - a) Prime Minister
 - b) Foreign Minister
 - c) Law Minister
 - d) Parliament Minister

5. What was the official name given to Pakistan in the 1956 constitution?
 - a) United States of Pakistan
 - b) Republic of Pakistan
 - c) Islamic Pakistan
 - d) Islamic Republic of Pakistan

GEOGRAPHY

Important link: <https://www.slideshare.net/GhulamHaider25/pakistan-geography>

1. Faisal mosque was built by a/an _____ architect.
 - a) Saudi
 - b) Turkish
 - c) American
 - d) French

2. K2 is the second highest mountain in the world and is located along the border of Pakistan and
 - a) India
 - b) Afghanistan
 - c) China
 - d) Iran

3. The only country with which Pakistan shares a maritime border and not a land border is
 - a) Iran
 - b) Oman
 - c) UAE
 - d) Saudia Arabia

4. Pakistan is located in
 - a) East Asia
 - b) West Asia
 - c) South Asia
 - d) Central Asia

5. What is the name of the mountain range along the border of China and Pakistan?
 - a) Himalayas
 - b) Karakoram
 - c) Hindu Kush
 - d) Pamir Mountains

WEEK 2

HISTORY

Important Link: <https://www.slideshare.net/2ub1/foreign-policy-of-pakistan-and-simla-agreement>

<https://www.slideshare.net/AbdullsHere/political-era-of-pakistan-1988-1999>

1. Shimla agreement between India and Pakistan was signed on 2 July
 - a) 1971
 - b) 1972
 - c) 1973
 - d) 1974

2. Pakistan tested nuclear weapons on
 - a) 24 May 1998
 - b) 26 May 1998
 - c) 28 May 1998
 - d) 30 May 1998

3. Pakistan is a member of all the following International organisations except
 - a) United Nations
 - b) SAARC
 - c) SCO
 - d) G20

4. "Pakistan Day" is celebrated each year on
 - a) 23 March
 - b) 14 August
 - c) 6 September
 - d) 25 December

5. The Muslim League passed Lahore Resolution, also known as Pakistan Resolution on
 - a) 12 April 1940
 - b) 12 April 1947
 - c) 23 March 1940
 - d) 23 March 1947

GEOGRAPHY

Important link: https://www.slideshare.net/alifaizanwattoo/geography-of-pakistan?next_slideshow=1

1. A narrow strip of Afghanistan called Wakhan that separates Pakistan from:
 - a) Azerbaijan
 - b) Kazakhstan
 - c) Tajikistan
 - d) Turkmenistan

2. Gorakh Hill station is in District:
 - a) Dadu
 - b) Chagai
 - c) Abbotabad
 - d) Skardu

3. The area covered in Sindh in Square kilometres is
 - a) 139424
 - b) 138320
 - c) 140914
 - d) None of these

4. Nanga Parbat is located at
 - a) Himalayas
 - b) Khiir Thar
 - c) Hindu Kash
 - d) None

5. Pakistan's climate can be described as
 - a) Temperate
 - b) Harsh
 - c) Arid
 - d) Dry

WEEK 3

HISTORY

Important Link: <https://www.slideshare.net/SaajidIslam/the-timeline-of-caliphate-in-history>

<https://www.slideshare.net/azannoor/the-arabs-and-islam-67920816>

1. The Holy Quran was compiled during the caliphate of Hazrat
 - a) Abu Bakar Siddique (R.A)
 - b) Usman (R.A)
 - c) Ali (R.A)
 - d) None of these

2. The Islamic Calendar (Hijra) started in the year
 - a) 622 AD
 - b) 620 AD
 - c) 611 AD
 - d) None of these

3. The Ottoman Empire lasted for over
 - a) Five centuries
 - b) Six centuries
 - c) Seven centuries
 - d) None of these

4. _____ is called in Arab tradition "Year of the Elephant"
 - a) 650 A.C.
 - b) 560 A.C.
 - c) 570 A.C.
 - d) None of these

5. _____ was the founder of the Abbasid Dynasty
 - a) Safah
 - b) Abu Jafar
 - c) Muhammad Musa
 - d) Abdullah

GEOGRAPHY

Important links: <https://www.slideshare.net/RubnawaxBhatti/rivers-of-pakistan>

1. Panjnad is
 - a) A river
 - b) A town
 - c) An animal
 - d) A city

2. The length of Panjnad is
 - a) 57 kilometres
 - b) 93 kilometres
 - c) 74 kilometres
 - d) 28 kilometres

3. Panjnad is comprised of how many rivers?
 - a) Four
 - b) Five
 - c) Three
 - d) Seven'

4. Attock River is another name of
 - a) River Jhelum
 - b) River Indus
 - c) River Ravi
 - d) River Chenab

5. The smallest river of Pakistan is
 - a) River Sutlej
 - b) River Chenab
 - c) River Ravi
 - d) River Indus

WEEK 4

HISTORY

Important link: <https://kidskonnnect.com/places/pakistan/>

1. The population in Pakistan exceeds
 - a) 10 Million people
 - b) 138 million people
 - c) 180 million people
 - d) 200 million people

2. Pakistan gained Independence shortly after
 - a) The Cold war
 - b) World War I
 - c) World War II
 - d) The Civil War

3. The second Prime Minister of Pakistan was
 - a) Sir Ghulam Muhammad
 - b) Khwaja Nazimuddin
 - c) Iskander Mirza
 - d) Mohammad Ali Bogra

4. At the time of Independence there were _____ princely states in India
 - a) 262
 - b) 362
 - c) 462
 - d) 562

5. The simla deputation was headed by
 - a) Mohsin-ul-Mulk
 - b) Quaid-e-Azam
 - c) Sir Saleemullah
 - d) Sir Aga Khan

GEOGRAPHY

Important link: <https://www.slideshare.net/sthomasen/geography-introduction>

1. The word geography means
 - a) Life and planet
 - b) Living habits
 - c) Location
 - d) Earth

2. The first person who used the word geography was
 - a) Aristotle
 - b) Eratosthenes
 - c) Plato
 - d) Socrates

3. Which of the following is not a basic type of map
 - a) Physical
 - b) Political
 - c) Road
 - d) Cartography

4. Which of the following is not a theme for geography?
 - a) Location
 - b) Place
 - c) Ambience
 - d) Movement

5. People who study geography are called
 - a) Geologists
 - b) Scientists
 - c) Geographers
 - d) Cartographers

WEEK 5

HISTORY

Important link: <https://classnotes.xyz/class-9-pak-studies-fbise-notes-ideological-basis-pakistan-notes/>

1. Muslims ruled the sub-continent for
 - a) Centuries
 - b) 50 years
 - c) 20 years
 - d) 10 years

2. During British rule Muslims were
 - a) Awarded
 - b) Free
 - c) Punished
 - d) Oppressed

3. The second pillar of Islam is
 - a) Tauheed
 - b) Namaaz
 - c) Fasting
 - d) Zakaat

4. The first person to use the term two nation theory was
 - a) Sir Syed Ahmed Khan
 - b) Allama Iqbal
 - c) Chaudhry Rehmat Allah
 - d) Shah Waliullah

5. _____ presented the idea of separate state for Muslims
 - a) Liaqat Ali Khan
 - b) Allama Iqbal
 - c) Sir Syed Ahmed Khan
 - d) Abdul Kalam Azad

GEOGRAPHY

Important link: <https://classnotes.xyz/class-9-pak-studies-fbise-notes-land-environment-notes/>

1. Afghanistan is situated _____ of Pakistan
 - a) East
 - b) West
 - c) North
 - d) North West

2. The border with Afghanistan is called the
 - a) Line of control
 - b) Boundary line
 - c) Pak Afghan line
 - d) Durand line

3. _____ connects Pakistan with China
 - a) Motorway
 - b) Shahrah-e-Resham
 - c) Indus Highway
 - d) National Highway

4. Central Makran hills are located in
 - a) Afghanistan
 - b) Balochistan
 - c) Swat
 - d) Chitral

5. There are _____ plateaus in Pakistan
 - a) 5
 - b) 6
 - c) 2
 - d) 3

WEEK 6

HISTORY

Important link: <https://www.slideshare.net/SabaNoor17/foreign-policy-of-pakistan-62731623>

1. The main dispute between India and Pakistan is over
 - a) Water issue
 - b) Land issue
 - c) Kashmir issue
 - d) Pollution issue

2. Indus water treaty was signed between India and Pakistan in
 - a) 1960
 - b) 1965
 - c) 1970
 - d) 1975

3. Shah of Iran visited Pakistan in
 - a) 1957
 - b) 1949
 - c) 1950
 - d) 1953

4. Second Islamic Conference was held in Pakistan in
 - a) 1990
 - b) 1998
 - c) 1972
 - d) 1984

5. The first meeting of SAARC was held in
 - a) 1983
 - b) 1985
 - c) 1982
 - d) 1987

GEOGRAPHY

Important link: <https://www.slideshare.net/murtaza516/culture-of-pakistan-56947353>

<https://www.slideshare.net/SanaSultan5/pakistani-society>

1. In 1950, by population, Pakistan was the _____ largest country in the world
 - a) 10th
 - b) 12th
 - c) 13th
 - d) 14th

2. Punjab is the _____ province of Pakistan
 - a) Smallest
 - b) Largest
 - c) Richest
 - d) Poorest

3. In Pakistan a census is held after every
 - a) 5 years
 - b) 10 years
 - c) 15 years
 - d) 3 years

4. The most densely populated city of Pakistan is
 - a) Lahore
 - b) Karachi
 - c) Islamabad
 - d) Multan

5. Sindhi language belongs to the ancient family of which languages?
 - a) Aryan
 - b) Modern
 - c) Punjabi
 - d) Pushto

ENGLISH

WEEK 1

Read the following passage and answer the questions below

In the 16th century, an age of great marine and terrestrial exploration, Ferdinand Magellan led the first expedition to sail around the world. As a young Portuguese noble, he served the king of Portugal, but he became involved in the quagmire of political intrigue at court and lost the king's favour. After he was dismissed from service by the king of Portugal, he offered to serve the future Emperor Charles V of Spain.

A papal decree of 1493 had assigned all land in the New World west of 50 degrees W longitude to Spain and all the land east of that line to Portugal. Magellan offered to prove that the East Indies fell under Spanish authority. On September 20, 1519, Magellan set sail from Spain with five ships. More than a year later, one of these ships was exploring the topography of South America in search of a water route across the continent. This ship sank, but the remaining four ships searched along the southern peninsula of South America. Finally, they found the passage they sought near 50 degrees S latitude. Magellan named this passage the Strait of All Saints, but today it is known as the Strait of Magellan.

One ship deserted while in this passage and returned to Spain, so fewer sailors were privileged to gaze at that first panorama of the Pacific Ocean. Those who remained crossed the meridian now known as the International Date Line in the early spring of 1521 after 98 days on the Pacific Ocean. During those long days at sea, many of Magellan's men died of starvation and disease.

Later, Magellan became involved in an insular conflict in the Philippines and was killed in a tribal battle. Only one ship and 17 sailors under the command of the Basque navigator Elcano survived to complete the westward journey to Spain and thus prove once and for all that the world is round, with no precipice at the edge.

1. The 16th century was an age of great _____ exploration
 - a) Cosmic
 - b) Land
 - c) Mental
 - d) Common man
 - e) None of the above

2. Magellan lost the favour of the King of Portugal when he became involved in a political _____.
 - a) Discussion
 - b) Entanglement
 - c) Negotiation
 - d) Problem
 - e) None of the above

3. One of Magellan's ships explored the _____ of South America for a passage across the continent

- a) Coastline
- b) Mountain range
- c) Islands
- d) Physical features
- e) None of the above

4. Four of the ships sought a passage along a southern _____.

- a) Coast
- b) Inland
- c) Body of land with water on 3 sides
- d) Border
- e) Answer not available in passage

5. The passage was found near 50 degrees S of _____

- a) Greenwich
- b) The equator
- c) Spain
- d) Portugal
- e) Madrid

WEEK 2

Choose the most appropriate response

1. We _____ to school by bus.
 - a) Always go
 - b) Go always

2. I _____ my room on Saturdays.
 - a) Clean often
 - b) Often clean

3. They _____ use computers in the classroom.
 - a) Sometimes use
 - b) Use sometimes

4. He _____ home before 8PM
 - a) Never gets
 - b) Gets never

5. They _____ friendly.
 - a) Are always
 - b) Always are

6. The children _____ watch YouTube videos.
 - a) Always watch
 - b) Watch always

7. I _____ my bed.
 - a) Make seldom
 - b) Seldom make

8. Our teacher _____ busy.
 - a) Is often
 - b) Often is

9. Do they _____ to the supermarket?
 - a) Never walk
 - b) Walk never

WEEK 3

Read the following passage and answer the questions below

Philosophy of Education is a label applied to the study of the purpose, process, nature, and ideals of education. It can be considered a branch of both philosophy and education. Education can be defined as the teaching and learning of specific skills, and the imparting of knowledge, judgment, and wisdom, and is something broader than the societal institution of education we often speak of.

Many educationalists consider it a weak and woolly field, too far removed from the practical applications of the real world to be useful. But philosophers dating back to Plato and the Ancient Greeks have given the area much thought and emphasis, and there is little doubt that their work has helped shape the practice of education over the millennia.

Plato is the earliest important educational thinker, and education is an essential element in "The Republic" (his most important work on philosophy and political theory, written around 360 B.C.). In it, he advocates some rather extreme methods: removing children from their mothers' care and raising them as wards of the state, and differentiating children suitable to the various castes, the highest receiving the most education, so that they could act as guardians of the city and care for the less able. He believed that education should be holistic, including facts, skills, physical discipline, music and art. Plato believed that talent and intelligence is not distributed genetically and thus is to be found in children born to all classes, although his proposed system of selective public education for an educated minority of the population does not really follow a democratic model.

Aristotle considered human nature, habit and reason to be equally important forces to be cultivated in education, the ultimate aim of which should be to produce good and virtuous citizens. He proposed that teachers lead their students systematically, and that repetition be used as a key tool to develop good habits, unlike Socrates' emphasis on questioning his listeners to bring out their own ideas. He emphasized the balancing of the theoretical and practical aspects of subjects taught, among which he explicitly mentions reading, writing, mathematics, music, physical education, literature, history, and a wide range of sciences, as well as play, which he also considered important.

During the Medieval period, the idea of Perennialism was first formulated by St. Thomas Aquinas in his work "De Magistro". Perennialism holds that one should teach those things deemed to be of everlasting importance to all people everywhere, namely principles and reasoning, not just facts (which are apt to change over time), and that one should teach first about people, not machines or techniques. It was originally religious in nature, and it was only much later that a theory of secular perennialism developed.

During the Renaissance, the French skeptic Michel de Montaigne (1533 - 1592) was one of the first to critically look at education. Unusually for his time, Montaigne was willing to question the conventional wisdom of the period, calling into question the whole edifice of the educational system, and the implicit assumption that university-educated philosophers were necessarily wiser than uneducated farm workers, for example.

1. What is the difference between the approaches of Socrates and Aristotle?
2. Why do educationists consider philosophy a "weak and woolly" field?
3. **What do you understand by the term 'Perennialism', in the context of the given comprehension passage?**
4. **Were Plato's beliefs about education democratic?**
5. **Why did Aquinas propose a model of education which did not lay much emphasis on facts?**

WEEK 4

Re-write the following sentences placing the adverb in the brackets in its correct position.

1. Our friends must write a test. (also)

2. I was joking. (only)

3. Did you enjoy the flight? (both)

4. Mary watches TV. (hardly ever)

5. He drives his car. (carefully)

6. The children play football. (in the garden)

7. We went to the cinema. (yesterday)

8. John fell off the bike. (almost)

9. Her dad will buy her a dress. (probably)

10. My uncle is moving to Stockholm soon. (definitely)

WEEK 5

Questions 1–4 are about the following announcement:

Student Volunteers Needed!

On Saturday, December 12th, from 10 A.M. until 4 P.M., Carverton Middle School will be holding a music festival in the school gymnasium. The special event will feature a variety of professional musicians and singers.

Task	Time	Date
Make posters	1 P.M.–4 P.M.	December 5th
Set up gym	11 A.M.–4 P.M.	December 11th
Help performers	9 A.M.–4 P.M.	December 12th
Welcome guests	10 A.M.–2 P.M.	December 12th
Clean up gym	4 P.M.–7 P.M.	December 12th

Interested students should speak with Ms. Braxton, the music teacher. Students who would like to help at the festival must have written permission from a parent or guardian.

1. What time will the festival begin?
 - a) 10AM
 - b) 11AM
 - c) 1PM
 - d) 2PM
2. In line 3, the word **feature** is closest in meaning to
 - a) Look
 - b) Keep
 - c) Include
 - d) Entertain
3. What job will be done the day before the festival begins?
 - a) Making posters
 - b) Setting up the gym
 - c) Cleaning the gym
 - d) Helping the performers
4. Who is told to talk to Ms. Braxton?
 - a) Parents
 - b) Students
 - c) Teachers
 - d) Performers

WEEK 6

Read the following passage and answer the questions below

When another old cave is discovered in the south of France, it is not usually news. Rather, it is an ordinary event. Such discoveries are so frequent these days that hardly anybody pays heed to them. However, when the Lascaux cave complex was discovered in 1940, the world was amazed. Painted directly on its walls were hundreds of scenes showing how people lived thousands of years ago. The scenes show people hunting animals, such as bison or wild cats. Other images depict birds and, most noticeably, horses, which appear in more than 300 wall images, by far outnumbering all other animals. Early artists drawing these animals accomplished a monumental and difficult task. They did not limit themselves to the easily accessible walls but carried their painting materials to spaces that required climbing steep walls or crawling into narrow passages in the Lascaux complex. Unfortunately, the paintings have been exposed to the destructive action of water and temperature changes, which easily wear the images away. Because the Lascaux caves have many entrances, air movement has also damaged the images inside. Although they are not out in the open air, where natural light would have destroyed them long ago, many of the images have deteriorated and are barely recognizable. To prevent further damage, the site was closed to tourists in 1963, 23 years after it was discovered.

- Which title best summarizes the main idea of the passage?
 - Wild Animals in Art.
 - Hidden Prehistoric Paintings.
 - Exploring caves respectfully.
 - Determining the age of French caves.
- The phrase **pays heed to** is closest in meaning to
 - Discovers
 - Watches
 - Notices
 - Buys
- Based on the passage what is probably true about the south of France?
 - It is home to rare animals
 - It has a large number of caves
 - It is known for horse racing events
 - It has attracted many famous artists.
- According to the passage all of the following have caused damage to the paintings EXCEPT
 - Temperature changes
 - Air movement
 - Water
 - Light
- The word **depict** is closest in meaning to
 - Show
 - Hunt
 - Count
 - Draw

SCIENCE

WEEK 1

1. Which of the following is a non-metal that remains liquid at room temperature?
 - a) Phosphorus
 - b) Bromine
 - c) Chlorine
 - d) Helium
2. Chlorophyll is a naturally occurring chelate compound in which central metal is
 - a) Copper
 - b) Magnesium
 - c) Iron
 - d) Calcium
3. Which of the following is used in pencils?
 - a) Graphite
 - b) Silicon
 - c) Charcoal
 - d) Phosphorus
4. The gas that usually fills in the electric bulb is
 - a) Nitrogen
 - b) Hydrogen
 - c) Carbondioxide
 - d) Oxygen
5. Washing soda is a common name for
 - a) Sodium bicarbonate
 - b) Calcium bicarbonate
 - c) Sodium carbonate
 - d) Calcium carbonate
6. Quartz crystals are chemically
 - a) Silicon dioxide
 - b) Germanium oxide
 - c) Mixture of germanium oxide and silicon dioxide
 - d) Sodium silicate
7. Which gas is **not** a greenhouse gas?
 - a) Methane
 - b) Nitrous oxide
 - c) Carbondioxide
 - d) Hydrogen
8. Bromine is a
 - a) Black solid
 - b) Red liquid
 - c) Colourless gas
 - d) Highly flammable gas

WEEK 2

1. The unit for measuring the amplitude of sound is
 - a) Decibel
 - b) Coulomb
 - c) Hum
 - d) Cycles
2. Reading of a barometer going down is an indication of
 - a) Snow
 - b) Storm
 - c) Heat
 - d) Rainfall
3. Fathom is the unit of
 - a) Sound
 - b) Depth
 - c) Frequency
 - d) Distance
4. Light year is a measurement of
 - a) Speed of light
 - b) Stellar distance
 - c) Speed of rockets
 - d) Speed of aeroplanes
5. 1 kilometre is equal to _____ miles
 - a) 0.84
 - b) 0.5
 - c) 1.6
 - d) 0.62
6. Kilowatt is a unit to measure
 - a) Work
 - b) Power
 - c) Electricity
 - d) Current
7. Electric current is measured by
 - a) Commutator
 - b) Anemometer
 - c) Ammeter
 - d) Voltmeter
8. Knot is a unit of speed used in
 - a) Aeroplanes
 - b) Light waves
 - c) Ships
 - d) Sound waves

WEEK 3

1. Describe how a nuclear reaction takes place

2. In an atomic explosion, enormous energy is released due to
- a) Conversion of chemical energy into heat energy
 - b) Conversion of mechanical energy into nuclear energy
 - c) Conversion of mass into energy
 - d) Conversion of neutrons into protons

3. Which of the following shows the masses of 3 elementary particles in decreasing order?
- a) Leptons, Baryons, Mesons
 - b) Mesons, Baryons, Leptons
 - c) Baryons, Mesons, Leptons
 - d) Leptons, Mesons, Baryons

4. The isotope of uranium capable of sustaining a chain reaction is
- a) U-235
 - b) U-245
 - c) U-239
 - d) U-238

5. Who suggested that most of the mass of the atom is located in the nucleus?
- a) Thompson
 - b) Bohr
 - c) Rutherford
 - d) Einstein

WEEK 4

1. Define vitamins and their types.

2. Organs that have same structure, but different functions are called

- a) Analogous
- b) Speciation
- c) Fossils
- d) Homologous

3. What is the shedding of flowers, leaves and fruits followed by formation of scar tissue called?

- a) Abscission
- b) Abscisic Acid
- c) Deciduous
- d) Mitosis

4. A group of glands that produce hormones is called

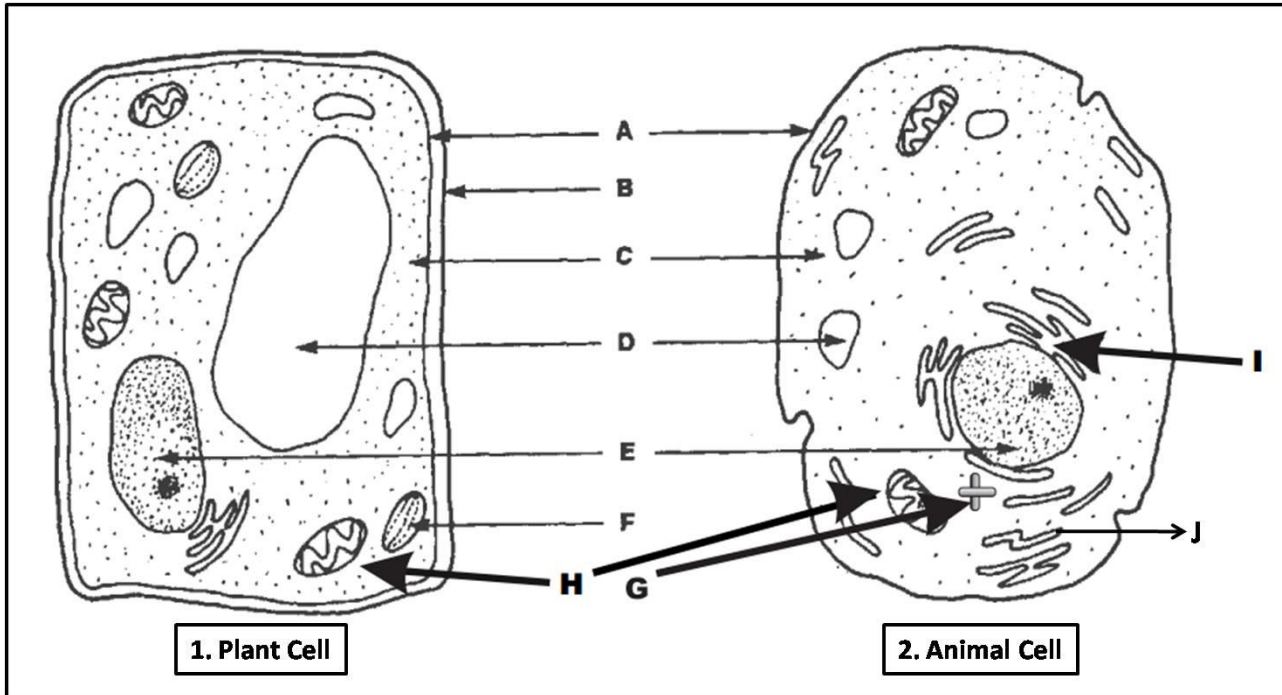
- a) Respiratory system
- b) Excretion
- c) Endocrine system
- d) Central Nervous System

5. The complex feeding relationships within a community is called

- a) Food chain
- b) Food web
- c) Trophic level
- d) All of the above

WEEK 5

Label the given diagram



- A: _____
- B: _____
- C: _____
- D: _____
- E: _____
- F: _____
- G: _____
- H: _____

WEEK 6

Answer the following questions:

1. Which toxic element is present in automobile exhausts?

2. Which metal is used to make microchips?

3. What is the toxicity of silicon called?

4. Which element is liquid at room temperature?

5. What is sodium chloride?

6. What is table sugar?

7. What is marsh gas?

8. What is the purest form of carbon?

9. What is the simplest sugar?

10. Which vitamin is also known as retinol?

INFORMATION TECHNOLOGY

WEEK 1

1. What is part of a database that holds only one type of information?
 - a) Report
 - b) File
 - c) Record
 - d) Field

2. **OS** computer abbreviation stands for
 - a) Order of Significance
 - b) Open software
 - c) Operating system
 - d) Optical sensor

3. **MOV** refers to what kind of file
 - a) Image
 - b) Audio
 - c) Movie
 - d) MS office document

4. **MPG** refers to what type of file
 - a) Word perfect document
 - b) MS office document
 - c) Movie
 - d) Image

5. The abbreviation **VHS** stands for
 - a) Video home speed
 - b) Very high speed
 - c) Video horizontal standard
 - d) Voltage house standard

6. What is the part of the computer one can physically touch?
 - a) Data
 - b) Operating system
 - c) Hardware
 - d) Software

7. IC chips used in computers are made of
 - a) Lead
 - b) Silicon
 - c) Chromium
 - d) Gold

WEEK 2

1. One kilobyte is equal to
 - a) 1000 bytes
 - b) 100 bytes
 - c) 1024 bytes
 - d) 1020 bytes

2. A _____ is an electronic device that processes data converting it into information
 - a) Computer
 - b) Processor
 - c) Case
 - d) Stylus

3. One Gigabyte is equal to
 - a) 1000,000 bytes
 - b) 1000,000,000 bytes
 - c) 1000,000,000,000 bytes
 - d) None of these

4. CDs can hold how many minutes of music?
 - a) 74 minutes
 - b) 90 minutes
 - c) 56 minutes
 - d) 60 minutes

5. Which is not an input device?
 - a) Mouse
 - b) Keyboard
 - c) Light pen
 - d) VDU

6. What process creates a smaller file that is faster to transfer over the internet?
 - a) Compression
 - b) Fragmentation
 - c) Encapsulation
 - d) None of these










7. File extensions are used to
 - a) Name the file
 - b) Ensure filename is not lost
 - c) Identify the file
 - d) Identify the type of file

8. There are _____ parts to a computer system
- a) 2
 - b) 4
 - c) 16
 - d) 100

WEEK 3

Choose the word that best describes the picture and write the word in the blank.

scanner	tower case	monitor
mouse	digital camera	printer
keyboard	trackball	speakers

 1. _____	 2. _____	 3. _____
 4. _____	 5. _____	 6. _____
 7. _____	 8. _____	 9. _____

1. What kind of errors can be pointed out by the computer?
 - a) Syntax error
 - b) Symantec error
 - c) Logical error
 - d) Internal error

2. What is the control unit's function in the CPU?
 - a) To transfer data to primary storage
 - b) To store program instructions
 - c) To perform logic functions
 - d) To decode program instructions

3. What is the best way to have data and the slide number appear on every slide?
 - a) chooses Tools, Header and Footer, click Slide tab, select the desired options, and click Apply to All.
 - b) chooses Insert, Header and Footer, click Slide tab, select the desired options, and click Apply to All.
 - c) chooses View, Header and Footer, click Slide tab, select the desired options, and click Apply to All.
 - d) chooses File, Header and Footer, click Slide tab, select the desired options, and click Apply to All.

4. What do you use to create a chart?
 - a) Pie wizard
 - b) Excel wizard
 - c) Data wizard
 - d) Chart wizard

5. Select the odd one out
 - a) Google
 - b) Windows
 - c) Linux
 - d) Mac

WEEK 5

Write the full form of each of the abbreviations given below

1. AI _____
2. ALU _____
3. CPU _____
4. DOS _____
5. ATM _____
6. HDMI _____
7. LAN _____
8. RAM _____
9. ROM _____
10. IT _____
11. USB _____
12. LCD _____
13. CAD _____
14. CU _____
15. HTML _____

WEEK 6

Define the following terms:

1. Cache: _____
2. Computer Ethics: _____
3. Computer virus: _____
4. Cybercrime: _____
5. Hacker: _____
6. IC Chip: _____
7. Motherboard: _____
8. Ports: _____
9. Spyware: _____
10. Worm: _____

MATHS WEEK 1

1. The standard form of the quadratic equation is $ax^2 + bx + c = 0$ where a, b, c are

A: Real numbers

B: Rational numbers

C: Irrational numbers

D: Whole number

2. The solution set of equation $4x^2 - 16 = 0$ is:

A: $\neq 2$

B: $\{\neq 4\}$

C: $\{4\}$

D: $\{\pm 2\}$

3. Which equation has exactly two solutions?

A: $2x+3=0$

B: $2^x = 0$

C: $1/x-1=0$

D: $x^2 + 2x - 1 = 0$

4. Which expression is a perfect square?

A: $x^2 + 4$

B: $y^2 - 9$

C: $x^2 + 4x + 1$

D: $x^2 + 1/x - 2$

5. The cancellation of x on both sides of the equation of the type $ax^2 = bx$ means the loss of one root. That root is always equal to

A: 0

B: 1

C: a

D: b

6. An equation which contains the square of unknown (variable) quantity, but no higher power is present called:

A: linear equation

B: quadratic equation

C: third degree equation

D: none of these

7. The factors of $x^2 - 8x - 20$ are:

A: $(x-10)(x+2)$

B: $(x+10)(x-2)$

C: $(x-5)(x+4)$

D: $(x+5)(x-4)$

8. What should be done to make the coefficient of x^2 equal to 1, in $7x^2 + 2x - 1 = 0$?

A: Subtract 7 from both sides

B: Multiply the equation by 7

C: Divide the equation by 7

D: Add 7 in both sides

9. Cancellation of x on both sides of $5x^2 = 30x$ means.

A: No loss of any root

B: The loss of one root

C: Gain of one root

D: Undefined solution

10. The equation $x - \frac{2}{x-1} = 1 - \frac{2}{x-1}$ has:

A: One solution

B: No solution

C: Two solutions

D: None of these

WEEK 2

1. An equation of type $x^4+x^3+x^2+x+1=0$ is called a/an equation.

- A: Radical
- B: Reciprocal
- C: Exponential
- D: None of these

2. What should be done to make the co-efficient of x^2 equal to 1, in $7x^2 + 2x - 1 = 0$?

- A: Subtract 7 from both sides
- B: Multiply the equation by 7
- C: Divide the equation by 7
- D: Add 7 in both sides

3. Cancellation of x on both sides of $5x^2 = 30x$ means.

- A: No loss of any root
- B: The loss of one root
- C: Gain of one root
- D: Undefined solution

5. The solution set of equation $5x^2 = 30x$ is

- A: {0,6}
- B: {5,30}
- C: {0,-6}
- D: {5,0}

6. An equation of type $x^4+x^3+x^2+x+1=0$ is called a/an equation.

A: Radical

B: Reciprocal

C: Exponential

D: None of these

7. What comes next in the sequence: 1, 3, 11, 43, ___ ?

(A) 161

(B) 171

(C) 181

(D) 191

8. What is the distance travelled by a car which travelled at a speed of 80 km/hr for 3 hours and 30 minutes?

(A) 275 km

(B) 280 km

(C) 285 km

(D) 290 km

WEEK 3

1. $0.003 \times 0.02 = ?$

- (A) 0.06
- (B) 0.006
- (C) 0.0006
- (D) 0.00006

2. What is the average of the numbers: 0, 0, 4, 10, 5, and 5 ?

- (A) 2
- (B) 3
- (C) 4
- (D) 5

3. What is the rate of discount if a car which price was \$4,000 was sold for \$3,200 ?

- (A) 14%
- (B) 16%
- (C) 18%
- (D) 20%

4. $|-4| + |4| - 4 + 4 = ?$

- (A) 0
- (B) 2
- (C) 4
- (D) 8

5. What is the value of x in the equation $3x - 15 - 6 = 0$?

(A) 7

(B) 8

(C) 9

(D) -9

6. If A completes a particular work in 8 days and B completes the same work in 24 days. How many days will it take if they work together?

(A) 4

(B) 5

(C) 6

(D) 7

7. In a class of 40 students 20% are girls. How many boys are there in the class?

(A) 26

(B) 28

(C) 30

(D) 32

WEEK 4

1. $2 + 2 - 2 \times 2 \div 2 = ?$

(A) 0

(B) 1

(C) 2

(D) 4

2. $|2| + |-2| + (2)^2 + (-2)^2 = ?$

(A) 6

(B) 8

(C) 10

(D) 12

3. If $x = -1$, then what is the value of the function

(A) 7

(B) 9

(C) 11

(D) 13

4. If $x/2 + 4 = 7/2$

then $x = ?$

(A) -2

(B) -1

(C) 1

(D) 2

5. What comes next in the sequence: 2, 4, 10, 28, _ ?

(A) 64

(B) 70

(C) 76

(D) 82

6. $106 \times 106 - 94 \times 94 = ?$

A. 2004

B. 2400

C. 1904

D. 1906

7. Which of the following numbers gives 240 when added to its own square?

A. 15

B. 16

C. 18

D. 20

WEEK 5

1. The average of first 50 natural numbers is

- A. 25.30
- B. 25.5
- C. 25.00
- D. 12.25

2. A fraction which bears the same ratio to $\frac{1}{27}$ as $\frac{3}{11}$ bear to $\frac{5}{9}$ is equal to

- A. $\frac{1}{55}$
- B. 55
- C. $\frac{3}{11}$
- D. $\frac{1}{11}$

3. The number of 3-digit numbers divisible by 6, is

- A. 149
- B. 166
- C. 150
- D. 151

4. What is 1004 divided by 2?

- A. 52
- B. 502
- C. 520
- D. 5002

5. A clock strikes once at 1 o'clock, twice at 2 o'clock, thrice at 3 o'clock and so on. How many times will it strike in 24 hours?

- A. 78
- B. 136
- C. 156
- D. 196

6. 125 gallons of a mixture contains 20% water. What amount of additional water should be added such that water content be raised to 25%?

- A. $15\frac{1}{2}$ gallons.
- B. $17\frac{1}{2}$ gallons.
- C. $19\frac{1}{2}$ gallons.
- D. $8\frac{1}{3}$ gallons.

7. 125 gallons of a mixture contains 20% water. What amount of additional water should be added such that water content be raised to 25%?

- A. $15\frac{1}{2}$ gallons.
- B. $17\frac{1}{2}$ gallons.
- C. $19\frac{1}{2}$ gallons.
- D. $8\frac{1}{3}$ gallons.

WEEK 6

1. $19 + \dots = 42$

A. 23

B. 61

C. 0

D. 42

2. What is the symbol of pi?

A. €

B. π

C. Ω

D. ∞

3. Arrange the numbers in ascending order: 36, 12, 29, 21, 7.

A. 36, 29, 21, 12, 7

B. 36, 29, 7, 21, 12

C. 7, 12, 21, 29, 36

D. None of the

4. What is the greatest two digit number?

A. 10

B. 90

C. 11

D. 99

5. How much is $90 - 19$?

A. 71

B. 109

C. 89

D. None of these

6. 20 is divisible by

A. 1

B. 3

C. 7

D. None of these

7. Find the value of x ; if $x = (2 \times 3) + 11$.

A. 55

B. 192

C. 17

D. 66

8. What is the smallest three digit number?

A. 100

B. 999

C. 111

D. 101

9. How much is $190 - 87 + 16$?

A. 103

B. 261

C. 87

D. 119

10. What is 1000×1 equal to?

A. 1

B. 1000

C. 0

D. None of these

اردو مشقی پارچہ نمبر ۱

- سوال نمبر ۱۔ دو مکی سورتوں کے نام بتائیں۔
سوال نمبر ۲۔ اللہ کے پانچ صفاتی نام بتائیں۔
سوال نمبر ۳۔ ڈاکٹر علامہ اقبال کی دو تصانیف کے نام بتائیں۔
سوال نمبر ۴۔ پاکستان ن کا نام کس نے تجویز کیا؟
سوال نمبر ۵۔ تعریف کیجئے:
صفت ذاتی: صفت نسبتی:
سوال نمبر ۶۔ پاکستان کا سب سے بڑا فوجی اعزاز کیا ہے؟
سوال نمبر ۷۔ اقوام متحدہ کب قائم ہوئی؟
سوال نمبر ۸۔ انسان کے جسم میں کتنی ہڈیاں ہیں؟
سوال نمبر ۹۔ چاند کا ہم معانی لفظ کیا ہے؟
سوال نمبر ۱۰۔ کثیر الانتخابی سوالات کے درست جوابات تحریر کیجئے؟
۱۔ انہیں بابائے اردو کہا جاتا ہے۔
(ا) علامہ اقبال (ب) مولوی عبدالحق (ج) شبلی نعمانی (د) پریم چند
۲۔ قرآن میں کل کتنی سورتیں ہیں؟
(ا) ۱۱۲ (ب) ۱۱۴ (ج) ۱۱۰ (د) ۱۲۴
۳۔ بھاپ کا انجن انہوں نے ایجاد کیا۔
(ا) البرٹ (ب) واٹسن (ج) جیمز واٹ (د) گلیلیو
۴۔ غزل کے پہلے شعر کو کہتے ہیں۔
(ا) مقطع (ب) مطلع (ج) قافیہ (د) تلمیح
۵۔ کوہ قراقرم کے سلسلے کی بلند ترین چوٹی ہے۔
(ا) ترچ میر (ب) ننگا پربت (ج) کے ٹو (د) ہمالیہ

<https://youtu.be/PeLyQdjcoYI>
<https://ur.wikipedia.org/wiki>

مشقی پارچہ نمبر ۲

- سوال نمبر ۱۔ دومی سورتوں کے نام بتائیں۔
سوال نمبر ۲۔ دنیا کا سب سے چھوٹا براعظم کون سا ہے؟
سوال نمبر ۳۔ بنگلہ دیش کی کرنسی کیا ہے؟
سوال نمبر ۴۔ دنیا میں سب سے زیادہ شکر پیدا کرنے والا ملک کون سا ہے؟
سوال نمبر ۵۔ پیغمبروں کا شہر کس کو کہا جاتا ہے؟
سوال نمبر ۶۔ قافیہ کسے کہتے ہیں؟
سوال نمبر ۷۔ کالا جھنڈا کس چیز کو ظاہر کرتا ہے؟
سوال نمبر ۸۔ صوبہ سندھ کے موجودہ وزیر اعلیٰ کون ہیں؟
سوال نمبر ۹۔ قرآن کا نزول کن دو شہروں میں ہوا؟
سوال نمبر ۱۰۔ حکیم الامت کس کا لقب ہے؟

<https://youtu.be/s3bLEfbab-k>

مشقی پارچہ نمبر ۳

- سوال نمبر ۱۔ دنیا کا سب سے گرم ملک کون سا ہے؟
سوال نمبر ۲۔ کراچی کا پرانا نام کیا ہے؟
سوال نمبر ۳۔ دھوپ سے کون سا وٹامن حاصل ہوتا ہے؟
سوال نمبر ۴۔ آب حیات کس کی تصنیف ہے؟
سوال نمبر ۵۔ مقطع سے کیا مراد ہے؟
سوال نمبر ۶۔ ترکی کا دارالحکومت کیا ہے؟
سوال نمبر ۷۔ قرآن میں کل کتنے انبیاء کا ذکر آیا ہے؟
سوال نمبر ۸۔ پاکستان کا قومی ترانہ کس نے تحریر کیا؟
سوال نمبر ۹۔ باسکٹ بال میں ہر طرف کتنے کھلاڑی ہوتے ہیں؟
سوال نمبر ۱۰۔ مادہ کی کتنی حالتیں ہیں؟

<https://youtu.be/s3bLEfbab-k>

مشقی پارچہ نمبر ۴

- سوال نمبر ۱۔ پاکستان کا قومی ترانہ کب نشر کیا گیا؟
- سوال نمبر ۲۔ دوسری بلند ترین چوٹی کون سی ہے؟
- سوال نمبر ۳۔ جدید ترکی کے پہلے صدر کون تھے؟
- سوال نمبر ۴۔ دوربین کس نے ایجاد کی؟
- سوال نمبر ۵۔ پہلی عالمی جنگ کب لڑی گئی؟
- سوال نمبر ۶۔ تصوف کا امام کسے کہا جاتا ہے؟
- سوال نمبر ۷۔ عراق کا دارالحکومت کیا ہے؟
- سوال نمبر ۸۔ کس سورہ کو قرآن کا دل کہا جاتا ہے؟
- سوال نمبر ۹۔ آر سی ڈی کا نیا نام کیا ہے؟
- سوال نمبر ۱۰۔ علامہ اقبال کا کوئی شعر تحریر کیجئے؟

<https://youtu.be/iIMIO5Mm4Q0>

مشقی پارچہ نمبر ۵

- سوال نمبر ۱۔ مکی اور مدنی سورتوں کی تعداد بتائیں۔
- سوال نمبر ۲۔ پیغمبر اسلام نے کب اعلان رسالت کیا؟
- سوال نمبر ۳۔ سندھی زبان کے بڑے صوفی شاعر کون تھے؟
- سوال نمبر ۴۔ پاکستان کا پہلا ایٹمی دھماکہ کس سن میں کیا گیا؟
- سوال نمبر ۵۔ تحریک خلافت کے مشہور رہنما کون تھے؟
- سوال نمبر ۶۔ ای سی او کا پرانا نام کیا ہے؟
- سوال نمبر ۷۔ پاکستان کی پہلی خاتون وزیر اعظم کون تھیں؟
- سوال نمبر ۸۔ لفظ ایجوکیشن کس زبان سے اخذ کیا گیا ہے؟
- سوال نمبر ۹۔ دنیا میں کتنے براعظم ہیں؟ نام بتائیے۔
- سوال نمبر ۱۰۔ روس کے دارالحکومت کا نام بتائیں۔

<https://youtu.be/pvCRqa6FA5c>

<https://youtu.be/VABpDP9TjXY>

مشقی پارچہ نمبر ۶

- سوال نمبر ۱۔ یونیورسٹی کا انتظامی سربراہ کیا کہلاتا ہے؟
- سوال نمبر ۲۔ کس کی ایجاد سے جہاز رانوں کو بحری راستے تلاش کرنے میں مدد ملی؟
- سوال نمبر ۳۔ سچی کس صوبے کی خاص ڈش ہے؟
- سوال نمبر ۴۔ اجرک کس کی ثقافت ہے؟
- سوال نمبر ۵۔ افغانستان کا دارالحکومت کیا ہے؟
- سوال نمبر ۶۔ مسلم لیگ کب قائم ہوئی؟
- سوال نمبر ۷۔ بلب کس کی ایجاد ہے؟
- سوال نمبر ۸۔ تلمیح سے کیا مراد ہے؟
- سوال نمبر ۹۔ پاکستان کس شاہراہ کے راستے چین سے جڑا ہوا ہے؟
- سوال نمبر ۱۰۔ اولمپک گیمز کتنے سال بعد منعقد ہوتے ہیں؟

<https://ur.wikipedia.org/wiki>

<https://youtu.be/UC1mezERu1Q>