



Cantt. Public Education System

**A New Frontier in Learning
Summer Vacation Homework 2020**

Class: XII

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, 2020, we have started a robust, interactive teaching program. The curriculum is being 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 continuing the following timetable:

Group	DAYS	Timings	Subjects	Remarks
I	Monday – Day 1 Tuesday – Day 2 Wednesday – Day 3	0900 – 0940	Computer/ Biology/ Math	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	

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

Sr. No.	Subject	Pages	
		From	To
1	English	2	20
2	Mathematics	21	30
3	Biology	31	50
4	Pakistan Studies	51	58
5	Chemistry	59	76
6	Physics	77	101
7	Computer	102	129
8	Urdu	130	138
9	General Knowledge	139	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.

Note:

Dear Students,

The assignment should be submitted after vacations. It carries 10 marks per subjects.

Regards,
Cantt. Public Education System

SUMMER VACATION HOMEWORK 2020
CLASS: XII (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 the time favorite fiction?
- e. Who is your favorite author?
- f. What is sonnet?
- g. Name 2 tragedies of Shakespeare.

English Week 08

Day 1 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 3	<u>Duty & Responsibility</u> 3.1 Lesson from The Battle Of Uhud (Reading Comprehension) pg. no.91 https://www.bing.com/videos/search?q=lesson+from+the+battle+of+uhud+muslims+history&&view=detail&mid=D72D9408E85850A23BF1D72D9408E85850A23BF1&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dlesson%2Bfrom%2Bthe%2Bbattle%2Bof%2Buhud%2Bmuslims%2Bhistory%26FORM%3DHDRSC3 a) Read chapter thoroughly to attempt exercise given below.	<u>Worksheet</u> (Read & Learn pg. # 91)

Day 1 – Homework

1) Answer the following questions.

- What did the Holy Prophet (PBUH) decide finally?
- What changed the course of the battle of Uhud?
- Whom did the Holy Prophet (PBUH) send his own sword to continue fighting?
- What did Abu Sufyan boast about when he was leaving the battleground?
- What did the companions of the Holy Prophet (PBUH) learn from the battle of Uhud?

2) Choose the right answer from the given choices:

- The Battle of Uhud was an _____ of the Battle of Badr.
a. addition b. extension c. expedition d. experience
- Uhud was a great _____ of a barren rock.
a. sketch b. stretch c. desert d. expanse
- The Muslims practically lost _____ to fight.
a. wish b. hope c. will d. fun
- An army of _____ persons marched to Madinat to avenge their earlier defeat.
a. 2,000 b. 1,000 c. 4,000 d. 3,000
- _____ Hypocrites led by Abdullah Bin Ubayy withdrew and went to their home.
a. 200 b. 300 c. 400 d. 100

Day 2 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	<u>Grammar: Uses Of Tenses (PAST)</u> Pg. no.99_104 https://www.bing.com/search?q=past+tense&form=EDGEAR&qs=PF&cvid=425ba139555a47b5a5b495f12d49347c&cc=US&setlang=en-US&plvar=0	<u>Worksheet</u> Textbook, Pg. no: 102,103 Exercise # 1,2

Day 2 – Homework:

Choose the correct verb form from the brackets:

- i) The earth_____ round the sun. (moves, move, moved)
- ii) My friends_____ the Prime Minister. (see, have, seen, saw)
- iii) I_____ him only one letter up till now. (send, have sent, sent)
- iv) I shall telephone you when he_____ back. (will come, comes, came)
- v) It started to rain while we_____ tennis. (are playing, were playing, had played)
- vi) Can I have some milk before I_____ to bed? (go, am going, shall go)
- vii) He_____ asleep while he was driving. (falls, fell, has fallen)

Day 3 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	<u>Grammar: Past Progressive</u> Pg. no.101 https://www.slideshare.net/search/slideshow?searchfrom=header&q=past+continuous&ud=any&ft=all&lang=*&sort=	<u>Worksheet</u> Exercise 103,104

Day 3 – Homework

Change the given sentences 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.

English Week 09

Day 1 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 3	<u>Duty & Responsibility:</u> 3.2 LINGKUAN GORGE (Reading Comprehension) Pg. no.107—120 https://sites.google.com/a/rsu71.org/the-global-classroom--linking-the-world-one-classroom-at-a-time/lingkuan-gorge a) Read chapter thoroughly to attempt the exercise given below.	Read & Learn Pg# 107-120 *summary *about the author

Day 1 – Homework

1) Answer the following questions.

- How old is Cheng-yu?
- What does he respond when the narrator asked, “Why is not anybody home?”?
- What work Cheng-yu does?
- What “Job” has Cheng-yu been assigned, and what explanation does he give for refusing the narrator’s advice to go to sleep?

2) Choose the correct answer from the given choices:

- In this gorge, the sun _____ shone.
a. usually b. always c. never d. seldom
- The cave was large, but quite _____.
a. haunted b. sun habited c. warm d. cold
- I pressed his _____ red little nose.
a. half b. dark c. icy d. fully
- I certainly was sorry I had _____ my small host.
a. offended b. humiliated c. insulted d. tortured
- Cheng-yu’s father was _____.
a. directing traffic b. digging mountains c. old d. Department Chief

Day 2 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	<u>Grammar: Conditional Sentence</u> Textbook, Pg. no.477-480 https://www.bing.com/videos/search?q=a+long+walk+home+by+jason+bocarro&docid=608023899861943605&mid=23C8280EB357D4566E7F23C8280EB357D4566E7F&view=detail&FORM=VIRE	<u>Worksheet</u> Text book, Pg. no. 479 Exercise # 2,3 https://www.englishgrammar.org/?s=conditional+sentences

Day 2- Homework

1) Rewrite each conditional sentence by correcting its tense:

EXAMPLE:

If he works hard, he (pass) the exam.

If he works hard, he will pass the exam.

- a) If you have finished, I (let) you go.
- b) If I (know), I would have told you.
- c) I will phone him if I (have) time.
- d) I (arrange) everything if you write to me.
- e) He (got) the job if I had applied for it.
- f) I (arrange)everything if you write to me.
- g) He (finish) the work if it didn't rain.
- h) Supposing you (lose) your job, what would you do?
- i) If I had a time, I (help) you.

Day 3 –Overview

Unit	Topic	Activity / Worksheet
	Modal Verbs: Can, Could Book Pg. # 114 ,115 https://www.bing.com/images/search?q=can%2c+could&id=BD8A4C0F9903676B18415DFDD13235DA02C90AA8&form=EQNAMI&first=1&scenario=ImageBasicHover	Worksheet Can, Could Pg no 117, 118 Exercise # A

Day 3 – Homework:

Can – Could

1. Read the sentences and choose the correct answer.

- 1) She screamed a lot but nobody heard her voice.
a) could b) can c) couldn't d) can't
- 2) You are 17 years old, you enter the club at this age.
a) can b) can't c) couldn't d) could
- 3) My mother play the guitar very well when she was young.
a) can b) could c) can't d) couldn't
- 4) She understand five language and speak three language
a) Can/can't b) can/can c) could/can d) could/could
- 5) I play tennis now. I have got a terrible headache.
a) could b) can c) can't d) couldn't

2. Complete the sentences with the correct form of can or could.

1. I _____ go to the party last night because I was sick.
2. A: _____ Noel cook Italian food? B: Yes, he _____.
3. My sister _____ swim last year, but now she _____.
4. They _____ go shopping yesterday because the store was closed.
5. A: _____ you read when you were four years old? B: Yes, I _____.
6. Ellie _____ ride a bicycle. She rides it to school every day.
7. I'm very tired, so I _____ go out to the park to play.
8. A: _____ you see the moon last night? B: No, I _____.
9. When _____ I talk to you about the company report?
10. Most dinosaurs walked on land, but some _____ fly or even swim.
11. Excuse me, I _____ hear you right now. The music is too loud.
12. I _____ drive a truck when I was only sixteen years old.
13. Douglas hit the tree because he _____ stop his car.
14. How many hot dogs _____ you eat at one time?
15. I _____ read without my reading glasses. Where are they?

ENGLISH WEEK 10

Day 1 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 3	<u>Duty & Responsibility:</u> 3.3 IF (POEM) Pg. no.121-135 https://www.bing.com/videos/search?q=poe+if+by+rudyard+kipling&&view=detail&mid=CB533FD670EDFB263374CB533FD670EDFB263374&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dpoe%2Bif%2Bby%2Brudyard%2Bkipling%26FORM%3DHDRSC3	READ & LEARN Book Pg. # 121 *About the poet *Central Idea *Stanza# 3,4

Answer the following questions.

a) Define stanza 3 & 4.

b) Write down the Central Idea of the poem "IF".

j) Choose the right answer from the given choices:

i) The poem "IF" is written by _____.

- a. William Wordsworth b. William Black c. Rudyard Kipling d. Robert Frost

ii) The word "knave" means _____.

- a. a gentleman b. a rogue c. a brave man d. a strong man

iii) The word "sinew" means _____.

- a. pulse b. chest c. music d. heart

iv) Or being hated, don't give _____ to hating.

- a. path b. way c. voice d. warn

v) Or being lied about, don't _____ in lies.

- a. deal b. care c. trust d. reply

Day 2 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 4	Grammar: Active Passive Textbook, Pg. # 487 https://examples.yourdictionary.com/examples-of-active-and-passive-voice.html	Worksheet Active Passive pg. no 489, 490 Exercise # 1,2,3

Day 2 – Home Work:

A) State whether each of the given sentence is in active or passive voice:

1- Have they invited you to the party? **ACTIVE**

The letter was posted by Maria. **PASSIVE**

- 2- The car will be washed by Amjad.
- 3- Alex is doing the work.
- 4- Has the house been painted?
- 5- When did you buy the camera?
- 6- The girl has sung a beautiful song.
- 7- My wife does all the work.
- 8- Neha types all the work.
- 9- The flight has been cancelled.

B) Complete the sentence with correct form of the verb given in brackets:

Example:

i. My friends (come) two days ago.
My friends came two days ago.

ii. The letter (post) yesterday.
The letter was posted yesterday.

- 1- The report _____ today. (should send).
- 2- This work _____ today. (have to finish)
- 3- Ali _____ this essay last week. (write)
- 4- The report _____ yesterday. (prepare)
- 5- Lassi _____ from milk. (make)
- 6- This bridge _____ twenty years ago. (build)
- 7- An accident _____ here last night. (happen)
- 8- The car _____ this morning. (wash).
- 9- This assignment _____ now. (have to do)
- 10- This machine _____ by anyone. (can operate)

Day 3 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 4	<u>Courage & Determination</u> 4.1 Determination (Reading Comprehension) Pg. no.137—158 http://www.english-for-students.com/determination.html Read chapter thoroughly to attempt the exercises given below.	<u>Activity:</u> Read pg. #141 • summary

Day 3 –Homework

i- Choose the best answer from the given choices:

1. Roebling could not _____ the vision of the bridge he had in his mind.
a. ignore b. forget c. give up d. refute
2. He just had to _____ the dream with someone else.
a. communicate b. share c. discuss d. participate
3. It stand as a _____ monument to the love and devotion of his wife.
a. concrete b. tangible c. visible d. solid
4. By moving his finger, he slowly developed a _____ of communication with his wife.
a. law b. system c. way d. code
5. They _____ their crew and began to build their dream bridge.
a. appointed b. hired c. paid d. rent

ii. Answer the following questions.

- 1) Which two cities John Roebling thought of connecting through the bridge?
- 2) What did the engineers think about Roebling's plan?
- 3) What happened when the project was underway for only a few months?
- 4) How did Washington communicate with its engineers for 13years long?

ENGLISH WEEK 11

Day 1 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	GRAMMAR: Adjectives Book pg.# 141-157 https://www.slideshare.net/mobile/divyasharma2622/adjectives-61004636	Work sheet Book pg. #145,155 Exercise 2,4 https://www.englishgrammar.org/adjectives-exercise-6/

Day 1 – Homework

Underline the nouns used as adjective.

1. She was working in her vegetable garden.
2. I met up with some of my old school friends.
3. The streetlights were burning.
4. Road accidents are now very common.
5. My neighbor is a bus driver.
6. They are all government employees.
7. I want to go there for a birth certificate.
8. This is a new soup spoon.
9. This is a tin of dog biscuits.
10. The medicine chest is empty.
11. He has employed as a television reporter.
12. There has been a growth in money supply.

Day 2–Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 4	Courage & Determination 4.2 The Man Who Planted Trees (Reading Comprehension) pg. no 159—176 https://www.bing.com/videos/search?q=the%20man%20who%20planted%20trees%20by%20jean%20giono&q=AS&form=QBVR&sp=2&pq=the%20man%20who%20planted%20trees%20by%20jean%20giono&sk=HS1&sc=4-31&cvid=E8FB24BFDE0D47A7871EF3C50E863807	Worksheet: Read pg. #159 • Summary (READ & LEARN)
	Read chapter thoroughly to attempt the exercise given below.	

Day 2 – Homework

i- Choose the right answer from the given choices:

- As a matter of fact, he was extremely _____
a. active b. weak c. spry d. old
- There was _____ in being with this man.
a. joy b. peace c. frustration d. unrest
- His dog was _____ without being servile.
a. loyal b. fierce c. friendly d. careful
- I saw Elzeard Bouffier for the last time in June of _____.
a. 1935 b. 1940 c. 1945 d. 1950
- The wind, too, scattered _____.
a. minds b. hearts c. seeds d. soils

ii. Answer the following questions.

- 1) What did Giono discover on his second visit to the area after the World War?
- 2) What was the shepherd studying and for what purpose?
- 3) What does Giono say about the shepherd's living conditions?
- 4) Why does Giono decide to stay for the night at the shepherd's house?

Day 3 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 4	<u>Courage & Determination</u> 4.3 It Could not be Done (POEM) (Reading Comprehension) Pg. no 177—184 https://www.bing.com/videos/search?q=it+couldn%27t+be+done+by+edgar+guest+poem&&view=detail&mid=116F2FBFB9A8F6B67C6C116F2FBFB9A8F6B67C6C&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dit%2Bcouldn%2527t%2Bbe%2Bdone%2Bby%2Bedgar%2Bguest%2Bpoem%26FORM%3DHDRSC3	<u>Worksheet:</u> Read pg. #177 <ul style="list-style-type: none">• Summary• Central Idea• Stanza 4,5 READ & LEARN

Day 3 - Homework

i. Answer the following questions.

- 1) Define the stanzas 2, 3.
- 2) Write down the central Idea of the poem “It Could not be Done”.

ii- Choose the right answer from the given choice:

1. With a lift of his _____ and a bit of a grin.
a. head b. eye c. chin d. hand
2. There are thousands to _____ failure.
a. prophecy b. attribute c. forecast d. foresee
3. Somebody said that it could not be _____.
a. performed b. done c. completed d. finalized
4. He started to _____ as he tracked the king.
a. sing b. shout c. smile d. laugh
5. But he took off his coat and he took off his _____.
a. shirts b. vest c. hat d. shoes

ENGLISH WEEK 12

Day 1 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	Grammar: Idioms & Phrasal Verb Pg. no 501—510 https://www.bing.com/videos/search?q=IDIOMS%20AND%20PHRASAL&gs=n&form=QBVDMH&sp=-1&pq=idioms%20and%20phrasal&sc=6-18&sk=&cvid=4D314A30D68E4480993DFAE505797552	Worksheet Book Work Pg. no 505, 506 Do Practice

Day 1 – Homework

Use the following idioms in your sentences:

- 1- The lion's Share
- 2- To get ride
- 3- By leaps and bounds
- 4- At the eleventh hour
- 5- Bone of Contention
- 6- By hook or by crook
- 7- Red carpet
- 8- Face the music
- 9- Pros and cons
- 10- To burn the midnight oil

Day 2 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	Report Writing Pg. no. 521-528 https://www.bing.com/videos/search?q=REPORT+writing&&view=detail&mid=466DA5B1E181D0C6109F466DA5B1E181D0C6109F&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3DREPORT%2520writing%26qs%3Dn%26form%3DQBVDMMH%26sp%3D-1%26pq%3Dreport%2520writing%26sc%3D8-	Worksheet Pg #521,522 Learn and understand

Day 2 – Homework

Q. Write a report on each of the following topics:

- 1-Child Labour.
- 2-Present condition of a Govt. Hospital.
- 3-An Accident.
- 4-COVID19 Consequences for Pakistan

Day 3 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
	Grammar: Essay writing Pg. no 529-543 https://www.bing.com/videos/search?q=essay+writing+format+for+college&&view=detail&mid=48773C931EFD8E78BA5148773C931EFD8E78BA51&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dessay%2520writing%2520format%2520for%2520college%26qs%3DAS%26form%3DQBVDMMH%26sp%3D8%26pq%3Dessay%2520writing%2520format%26sk%3DHS1AS6%26sc%3D8-20%26cvid%3D85F6609273B946C6B1D153378C290356	Worksheet Pg. no, 532,537542, Learn and understand https://www.bing.com/videos/search?q=essay+writing+format+for+college&&view=detail&mid=48773C931EFD8E78BA5148773C931EFD8E78BA51&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dessay%2520writing%2520format%2520for%2520college%26qs%3DAS%26form%3DQBVDMMH%26sp%3D8%26pq%3Dessay%2520writing%2520format%26sk%3DHS1AS6%26sc%3D8-20%26cvid%3D85F6609273B946C6B1D153378C290356

Day 3 – Homework

Q. Write an essay on each of the following topics:

- Students and Politics
- Unemployment
- My Aim in Life
- Newspaper/Role of Print Media
- Precautions against Coronavirus

ENGLISH WEEK 13

Day 1 –Overview

<u>Unit</u>	<u>Topic</u>	<u>Activity / Worksheet</u>
Unit 21	<u>Grammar: Precis Writing & Comprehension</u> Book pg. # 511 https://www.bing.com/videos/search?q=precis%20writing%20%26%20comprehension&qs=n&form=QBVDMH&sp=-1&pq=precis%20writing%20%26%20comprehension&sc=0-30&sk=&cvid=1CFE68BC3E034C40B477EE22E70B6284	<u>Work sheet</u> Exercise Pg # 518, 519

Day 1 – Home Work

A large number of people keep delaying things and don't take actions or decisions at the right instant. They must not have heard procrastination is the thief of time. You can see large queues of people waiting in front of banks to pay their utility bills on the last day. What's the reason for that? Do you have any idea about this trait of people? It's one of the bad habits which one must shun. Lazy people suffer a lot in life. They can never make progress. Wise people don't put off till tomorrow what they can do today. Such people who shirk work lack discipline in life. They don't take life seriously. They don't have any aim in life. They don't want to elevate themselves to high positions. What's the remedy for them? They need encouragement, determination and someone to guide them.

Answer the following questions:

- a) Why do we see large of people outside the banks on last due dates?
- b) What are the four things which work shirkers have in common?
- c) Which trait does the author want us to shun?
- d) Write a synonym of:
 - i. Delay
 - ii. Wanting
 - iii. Cure

Day 2 – Homework

A good friend is a blessing of God. One who has not got a true friend is certainly an unfortunate person. Few people are lucky enough to have sincere friends. A good friend is your confidence whom you can share your secrets with. He or she can cheer you when you are in bad mood. He or she can help you in your trouble or difficulties. One must take great care in choosing a friend. He/ She must be sincere, devoted, honest and cooperative. If you have got a true friend, you must be thankful to Allah. You must have heard many people saying I wish I had a good friend. A good friend is a blessing while a bad friend is a curse. We must take great care in making friends. It's much better to have no friends than to have bad friends.

Answer the given questions:

- a) Who is an unfortunate person?
- b) Why should we be thankful to Allah?
- c) What's reason for taking great care in making friends?
- d) Name four characteristics of good friend by writing four adjectives.

Day 3 – Homework

Science is the most defined by saying that it is basically a vast collection of facts, expressed in exact and uncertain language in such a manner that their truth can be tested. It is also defined as a collection of rules laws which really express the link between these facts. In past age, remarkable advancement could not be observed due to unavailability of practical testing of the scientific assertions which were stated on non-experimental basis and anything asserted on such basis cannot be truly accepted. That is the real cause of such negligible progress. Science and technology progressed with fast pace when experimental basis was followed, and experimental evidence have really proved such assertions for they are based on a sort of fundamental approach and profound theoretical knowledge. Opinion can only be proved by following the same attitude. A scientist will accept a theoretical opinion when it is proved on solid grounds of experimental evidence assertions are always supposed to be hollow and doubtful.

Answer the following questions:

- a) What do you think is the main cause of slow progress of science in past age?
- b) How has the author defined the subject of science in the passage?
- c) Read and underline any five words in the passage. Which nouns do these refer back to?
- d) For each of the following words or phrases, find ONE word in the passage with a similar meaning.
 - i. Positive statement with confidence but with no proof.
 - ii. That can be neglected.
 - iii. Knowledge without practical evidence
 - iv. Empty or Worthless

SUMMER VACATIONS HOMEWORK
2020 CLASS: XII (FEDERAL BOARD)
SUBJECT: MATHEMATICS

MATHEMATICS WEEK-8

Days	No of Unit	Topic	Activity
<u>1</u> <u>2</u> <u>3</u>	Chapter 4th	Introduction to Analytic Geometry 1) https://youtu.be/yjmywRr2L4 2) https://youtu.be/JNx5u1wxwQl 3) https://youtu.be/Vxo8iKJj2qq 4) https://youtu.be/VJKWf_6VMzk	Book (Ex:4.1,4.2)

Day: 1

Introduction:

- Coordinate system
- The distance formula
- Midpoint of a line

Question:

- I) Show that the points A(3,1) , B(-2,-3) and C(2,2) are vertices of isosceles triangle.
- II) The points A(-5,-2) and B(5,-4) are ends of diameter of a circle. Find centre and radius of a circle.

Day: 2

Introduction:

- Point dividing the join of two points in a given ratio.
- Centroid of a triangle

Question:

- i) Find the point three-fifth of the way along the line segment from A(-5,8) to B(5,3).
- ii) Find the point which is equidistant from the points A(5,3) , B(-2,2) and C(4,2). Find the radius of the circumcircle of the ΔABC .

Day: 3

Introduction:

- Translation and rotation of axes.

Question

The xy-coordinate axes are rotated about the origin through the indicated angles and the new axes are OX and OY. Find the xy-coordinate of P with the given XY-coordinates.

- i) P(-5,3) ; $\theta=30^\circ$

Activity Links

https://www.mathcity.org/fsc/fsc_part_2_mcqs/mcqs-short_questions_by_mr._parvez_khan

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>	<u>Chapter 4th</u>	<u>Introduction to analytic geometry</u> 1) https://youtu.be/lulJPJaQBoc 2) https://youtu.be/nqR9BPOfhDo 3) https://youtu.be/-M28h0il9Lk 4) https://youtu.be/Bz_A3j9nzFE	<u>Book (Ex:4.3)</u>

Day: 1

Introduction:

- 1) Equation of straight line
- 2) Slope or gradient of a straight line joining two points
- 3) Equation of straight line parallel to x-axis and parallel to y-axis

Question

- 1) Find k so that the line joining A(7,3); B(k,-6) and the line joining C(-4,5); D(-6,4) are
 - a) Parallel
 - b) Perpendicular

Day: 2

Introduction:

Derivation of standard form of equations of straight line

- 1) Slope intercept form
- 2) Point slope form
- 3) Two point form
- 4) Intercept form
- 5) Normal form

Question:

Prove the following theorems;

- 1) Equation of a non-vertical straight line with slope m and y-intercept c is given by:
 $y=mx+c$
- 2) Equation of a non-vertical straight line l with slope m and passing through a point Q(x,y) is given by $y-y_1=m(x-x_1)$

Day: 3

Introduction:

- 1) A linear equation in two variables represent a straight line.

Question:

- 1) The linear equation $ax + by + c=0$ in two variables x and y represent a straight line. A linear equation in two variables x and y is

$$ax + by + c=0$$

Activity link:

https://www.mathcity.org/files/fsc/fsc_part2/MCQ_Imran/dn.php?file=Objective_Ch_4_FSC_part2_imran.pdf

MATHEMATICS WEEK-10

Days	No of Unit	Topic	Activity
<u>1</u> <u>2</u> <u>3</u>	Chapter <u>4th</u>	<u>Introduction to analytic geometry</u> 1) https://youtu.be/lulJPJaQBoc 2) https://youtu.be/nqR9BPOfhDo 3) https://youtu.be/-M28h0il9Lk 4) https://youtu.be/Bz_A3j9nzFE	<u>Book</u> <u>(Ex:4.3)</u>

Day: 1

Introduction.

To transform the general linear equation to standard form

- 1) Slope intercept form
- 2) Point-slope form
- 3) Symmetric form
- 4) Two points form
- 5) Intercept form
- 6) Normal form

Question

- 1) Find the equation of the perpendicular bisector of the segment joining the points A(3,5) and B(9,8)

Day: 2

Introduction:

- 1) Point of intersection of two straight lines
- 2) Condition of concurrency of three straight line
- 3) The equation of lines through the point of intersection of two lines

Question:

Find an equation of the line through (-4,7) and parallel to the line $2x-7y+4=0$

Day 3:

Introduction:

- 1) Distance of a point from a line
- 2) Distance between two parallel lines
- 3) Area of a triangular region whose vertices are given

Activity Link

https://www.mathcity.org/files/fsc/fsc_part2/MCQ_Imran/dn.php?file=Objective_Ch4_FSC_part2_imran.pdf

MATHEMATICS WEEK-11

Days	No of Unit	Topic	Activity
<u>1</u> <u>2</u> <u>3</u>	Chapter <u>4th</u>	Introduction to analytic geometry 1) https://youtu.be/uLasoaQQ-nQ 2) https://youtu.be/BI1R1JdVQo8 3) https://youtu.be/4yhGOaVreYA 4) https://youtu.be/b6aJ4y-ACYs	Book (Ex:4.4,4.5) revision test

Day: 1

Introduction:

- 1) Angles between two lines

Question

- 1) Find the angle measured from the line l_1 to the line l_2 where
 l_1 : joining (2,7) and (7,10)
 l_2 : joining (1,1) and (-5,3)

Day: 2

Introduction:

Equation of a straight line in matrix form

Question

Express the given system of equation in matrix form. Find whether the lines are concurrent.

$$\begin{aligned} x+3y-2 &= 0 \\ 2x-y+4 &= 0 \\ x-11y+14 &= 0 \end{aligned}$$

Day: 3

Introduction:

- 1) Homogeneous equation of the second degree in two variables
- 2) To find measure of the angle between the line represented by $ax^2+2hxy+by^2=0$

Activity link;

https://www.mathcity.org/files/fsc/fsc_part2/MCQ_Imran/dn.php?file=Objective_Ch_4_FSC_part2_imran.pdf

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 5th</u>	<u>Linear inequalities and linear programming</u> 1) https://youtu.be/uCvQvE0U7Lc 2) https://youtu.be/dvADY_86KYk 3) https://youtu.be/vPpCC36i9fo 4) https://youtu.be/XKIZq4wUOtK	<u>Ex # (5.1,5.2)</u>

Day: 1

Introduction:

- 1) Linear inequalities
- 2) Graphing of a linear inequality in two variables
- 3) procedure for graphing a linear inequality in two variables

Question

Graph the solution set of each of the following linear inequality in xy-plane

- 1) $2x+y \leq 6$
- 2) $3x+7y \geq 21$

Day: 2

Introduction:

- 1) Region bounded by 2 or 3 simultaneous inequalities
- 2) Problem constraint

Day: 3

Introduction:

Feasible solution set

Question

Graph the feasible region of the following system of linear inequalities and find the corner point in each case.

- 1) $2x-3y \leq 6$
 $2x+3y \leq 12$
 $x \geq 0, y \geq 0$

Activity link;

https://www.mathcity.org/files/fsc/fsc_part2/MCQ_Imran/Objective_Ch_5_FSC_part2_imran_1.gif

MATHEMATICS WEEK-13

<u>Day</u>	<u>No of Unit</u>	<u>Topic</u>	<u>Activity</u>
<u>1</u> <u>2</u> <u>3</u>	Chapter 5 th	<u>Linear inequalities and linear programming</u> 1) https://youtu.be/XKIZq4wUOtK 2) https://youtu.be/-GDTpo_Qy6E 3) https://youtu.be/uDgNo2GrGqE 4) https://youtu.be/TYuWkNnGcDM 5) https://youtu.be/RTgutsoc8u4	<u>Book Ex #5.3</u>

Day: 1

Introduction:

Linear programming

Question:

Maximize $f(x,y)=2x+5y$ subject to the constraints

$$2y-x \leq 8; \quad x-y \leq 4; \quad x \geq 0; \quad y \geq 0$$

Day: 2 and 3

Introduction

Linear programming problem

Question

- 1) <https://sabaq.pk/video-page.php?sid=federal-math-12th-5.7&v=m-11-12-linear-prog11-prob1a>
- 2) <https://sabaq.pk/video-page.php?sid=federal-math-12th-5.7&v=m-11-12-linear-prog11-prob2>
- 3) <https://sabaq.pk/video-page.php?sid=federal-math-12th-5.7&v=m-11-12-linear-prog11-prob2a>
- 4) <https://sabaq.pk/video-page.php?sid=federal-math-12th-5.7&v=m-11-12-linear-prog11-prob3>
- 5) <https://sabaq.pk/video-page.php?sid=federal-math-12th-5.7&v=m-11-12-linear-prog11-prob4>

Self Study

	<u>No of Unit</u>	<u>Topic</u>	<u>Activity</u>
	Chapter 6 th	Conic section 1) https://youtu.be/WU9X-GbzP_o 2) https://youtu.be/0bFUod-vA4A 3) https://youtu.be/SZ8I7Hbb7J0 4) https://youtu.be/b6LS5cSWRj0	Ex # 6.1

Introduction:

Equation of circle

General form of an equation of a circle

Question

Find the equation of a circle with center at (5,-2) and radius 4

Introduction:

1) A circle passing through three non collinear points

2) A circle passing through two points and having its center on a given line

Question

- 1) Write an equation of a circle that passes through the points A(4,5) B(-4,-3) C(8,-3)
- 2) Find the equation of a circle passing through A(3,-1), B(0,1) and having centre at $4x-3y-3=0$

Introduction:

- 1) A circle passing through two points and having tangent at one of these points is known
- 2) A circle passing through two points and touching a given line

Question

Show that the lines $3x-2y=0$ and $2x+3y-13=0$ are tangent to the circle $x^2+y^2+6x-4y=0$

SUMMER VACATION HOMEWORK 2020
CLASS: XII (FEDERAL BOARD)
SUBJECT: BIOLOGY

BIOLOGY WEEK 08

Days	CHAPTER.23: CHROMOSOMES AND DNA	
Monday to Thursday	→	Topic.1: Chromosomal Theory of Inheritance. https://youtu.be/MSbRjHHGIsI https://youtu.be/t6uD7328MZI
	→	Topic.2: Morphology of Chromosomes. https://youtu.be/FGpMau1Iq5A https://youtu.be/TJfPbtXmngs
	→	Topic.3: DNA Replication. https://youtu.be/TNKWgcFPHqw https://youtu.be/9qGUO93qsWc https://youtu.be/blb8toqbJN8
	→	Topic.4 : Mutation https://youtu.be/mCOMD291oBM https://youtu.be/lzhp5NuXo-k https://youtu.be/_VOa1cFaEB0
	→	Activity/ Homework: https://www.biologycorner.com/quiz/DNA1_qz.ht ml https://www.biologycorner.com/quiz/DNA2_qz.ht ml https://www.biologycorner.com/quiz/DNA3_qz.ht ml

Weekly Assessment Worksheet:

1. Encircle the correct answer.

A. The process by which RNA is made from DNA is called:

- translation
- transcription
- replication
- pagination

B. Adenine always pairs with:

- guanine
- cytosine
- thymine
- another adenine

C. The two sides of the DNA ladder are loosely bonded together by:

- hydrogen bonds
- molecular glue
- magnetism
- polymers

D. The process by which DNA makes a copy of itself is called:

- transcription
- translation
- synthesis
- replication

E. The outside of the DNA ladder (the legs) is composed of alternating ____ and phosphates.

- adenines
- hydrogens
- sugars
- bases

F. Which of the following takes the genetic code from the nucleus to the cytoplasm?

- mRNA
- tRNA
- DNA
- ribonucleotides

G. The three nucleotides found in DNA will code for a single:

- protein
- amino acid
- messenger RNA
- sugar

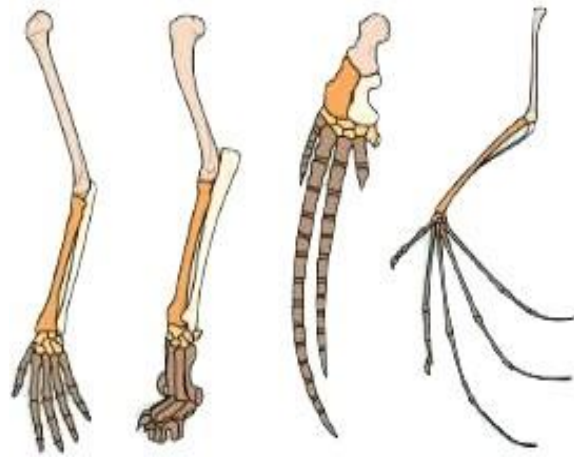
2. Why was it important to find an enzyme that would cut the plasmid at only one site? What could happen if the plasmid were cut at more than one site?
3. Which restriction enzyme did you use?
4. Why was it important to discard any enzymes that cut the plasmid at the replication site?
5. Why is it important to cut the plasmid and the human DNA with the same restriction enzyme?
6. Do restriction enzymes exist naturally in organisms? If so, what is their purpose?
7. Write the differences between: metacentric and sub-metacentric chromosomes, gene and allele.
8. Describe in detail the composition and organization of chromosomes.

BIOLOGY WEEK 09

Day	CHAPTER.24: EVOLUTION	
Monday	→	Topic.1: The Concept of Evolution. https://youtu.be/BkE0IK_SiDg https://youtu.be/hOfRN0KihOU
Tuesday	→	Topic.2: Lamarckism. https://youtu.be/qg649PHKBf0 https://youtu.be/TieuKU_ojBQ
Wednesday	→	Topic.3: Darwin's Theory of Natural Selection. https://youtu.be/JOk_0mUT_JU https://youtu.be/RLzmAk0JMRRM https://youtu.be/ll3Pe-9l83g
Thursday	→	Topic.4: Evidence of Evolution. https://youtu.be/Q-aGAX27Slo https://youtu.be/F1YWJ3kkEoY Activity/ Homework: https://www.biologycorner.com/quiz/qz_evolution_01.html https://www.biologycorner.com/worksheets/cw_evolution.html https://www.khanacademy.org/partner-content/amnh/human-evolutio/darwin-and-evolution-by-natural-selection/e/quiz-darwin-and-evolution-by-natural-selection

Weekly Assessment Worksheet:

1. Encircle the correct answer.



1. The image illustrates what evolutionary concept?

- embryological similarities
- variation among species
- vestigial structures
- homologous structures

2. Which of the following is NOT a component of the Theory of Evolution by Natural Selection?

- competition for food and space
- variation among species
- inheritance of acquired characteristics
- survival and reproduction

3. A structure that seems to serve no purpose in an organism is called:

- homologous
- vestigial
- dichotomous
- fossilized

4. In science, theories are:

- an educated guess
- a known fact
- absolute and unchangeable
- the best explanation for a set of data or observations

5. A group of mice becomes separated by the formation of a river. Over time, the northern mice became smaller and whiter, while the southern mice became larger and browner. This is an

example of:

- divergence
- homology
- gigantification
- industrial melanism

6. Lamarke is to "Inheritance of Acquired Characteristics" as Darwin is to _____

- divergence of related species
- homologous structures
- evolution by natural selection
- speciation by common descent

7. Any variation that can help an organism survive in its environment is called a(n):

- adaptation
- characteristic
- competition
- vestigial structure

8. The strongest evidence for change over a long period of time comes from:

- DNA
- fossils
- embryo studies
- direct observation of living species

9. The dog breeds we have today were developed through:

- natural selection
- artificial selection (selective breeding)
- sexual selection
- acquired selection

10. The finches on the Galapagos island were similar in form except for variations of their beaks. Darwin observed that these variations were useful for:

- attracting a mate
- defending territory
- building nests
- gathering food

BIOLOGY WEEK 10

3 rd Week	CHAPTER.25: MAN AND HIS ENVIRONMENT	
Monday	→	Topic.1: Biogeochemical Cycle (Water Cycle, Nitrogen Cycle). https://youtu.be/ccWUDIKC3dE https://youtu.be/Bsq3xLq0RVA https://youtu.be/DsCMYyQ0NWU
Tuesday	→	Topic.2: The Flow of Energy. https://youtu.be/TitrRpMUt0I https://youtu.be/CPokFBYW5gQ
Wednesday	→	Topic.3: Ecological Succession and Its Kinds. https://youtu.be/N0tL9Ow4apw https://youtu.be/8ceDE01iWLE https://youtu.be/d-yl6we5Fns
Thursday	→	Topic.4: Characteristics of Population. https://youtu.be/nXICfbwj78 <u>Activity/ Homework:</u> https://www.biologycorner.com/quiz/gz_populations.html https://www.biologycorner.com/worksheets/examining_stages_succession.html https://www.biologycorner.com/worksheets/examine_ecosystem.html https://www.khanacademy.org/science/biology/ecology

Weekly Assessment Worksheet:

1. Encircle the correct answer.

1. In a lakeside community, an introduced species hunts by diving for birds, the native duck populations decrease in number. This is due to:

- intraspecific competition
- competitive exclusion
- resource partitioning
- aggressive mimicry

2. Which of the following is an example of symbiosis?

- ants harvest nectar from flowers
- ticks feed from deer
- clown fish live within sea anemones
- all of these

3. A caterpillar has large spots on its hind end which resemble snake eyes, this is an example of:

- warning coloration
- mutualism
- startle coloration
- camouflage

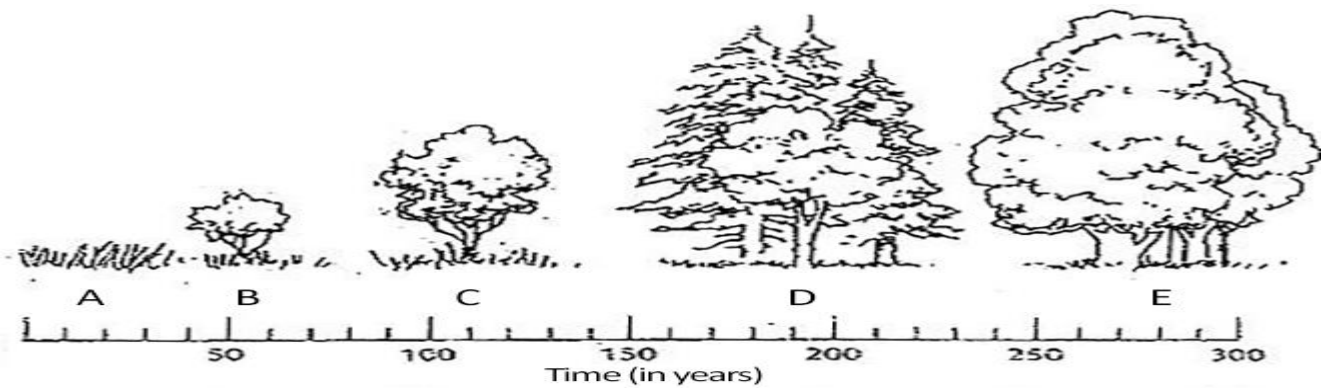


4. The first species to enter a new habitat are:

- pioneer species
- aberrant species
- parasitic species
- climax species

2. Read the paragraph and answer the questions below.

The forests, being an ecological system, are also subject to the succession process. There are pioneer species that produce great quantities of seeds that are dispersed by the wind and can colonize new spaces. They are capable of germinating and growing in direct sunlight. These plants are usually mosses and weeds, or other types of plants that grow quickly. They are then replaced by other types of grasses and even small flowering perennial plants. Perennial plants bloom over spring and then die back in the autumn, then return in the spring, like milkweed and clover. Next, shade-tolerant species become established under the protection of the pioneers and perennials. These are usually shrubs and small trees, like blackberry and sumac. Next, trees begin to establish themselves, though at first these are softwood trees, like pines and sweet gum. Eventually, larger hardwood trees begin to grow in this forest, like oak and maple trees. When the composition of the forest becomes stable, or does not change drastically, the forest has reached its climax. If a catastrophe occurs, like a fire, the opportunity for the pioneers opens up again, and the process starts over.



a. Identify using the letters on the graphic where each event occurs.

- Perennial plants and grasses: _____
- Pioneer species: _____
- Hardwood trees, climax forest: _____
- Softwood trees, like pine: _____
- Shrubs and small trees: _____

b. What types of plants are pioneers? _____

c. What types of trees are hardwood trees? _____

d. What is a perennial plant? _____

e. Primary succession occurs when new land becomes available, like when a glacier retreats or an island forms. _____

f. Secondary succession occurs after a disturbance. What might cause secondary succession to occur in a forest ecosystem? _____

BIOLOGY WEEK 11

Days	CHAPTER.25: MAN AND HIS ENVIRONMENT	
Monday	→	Topic.1: Carbon dioxide and Global Warming. https://youtu.be/cNwWjC1TNJw https://youtu.be/cRikke0oT94 https://youtu.be/FSBydPkLEII
Tuesday	→	Topic.2: Acid Rain. https://youtu.be/1PDjVDlrFec https://youtu.be/IWFXhKyzmZo https://youtu.be/WEZMrv6jxvk https://youtu.be/V6TmlosuDn0
Wednesday	→	Topic.3: Ozone Depletion. https://youtu.be/aU6pxSNDPhs https://youtu.be/pbuTzoq7FBo
Thursday	→	Topic.4: Environmental Resources and Their Depletion. https://youtu.be/TPrXUTXikJs https://youtu.be/uykPwAB72zE <u>Activity/ Homework:</u> https://www.biologycorner.com/worksheets/ecology_listmania.html https://www.biologycorner.com/projects/ecoproject/index.html

Weekly Assessment Worksheet:

Encircle the correct answer.

- The main gases responsible for the Greenhouse Effect are:
A water and ozone
B oxygen and nitrous oxide
C carbon dioxide and methane
- According to the United Nations, the main cause of climate change / global warming is the result of:
A water pollution
B factory and car emissions
C sewage
- It is believed that the thinning of the ozone layer is the result of chlorofluorocarbons. These gases have been used in:
A electric heaters and clothes driers
B spray cans and refrigerators
C cigarette lighters and air-conditioners
- The main gases that produce acid rain are:
A sulphur dioxide and nitrogen oxides
B ozone and oxygen gas
C chlorofluorocarbons
- The release of excessive amounts of harmful substances such as car and factory fumes and tyre rubber into the atmosphere is called:
A noise pollution
B mutagenic pollution
C air pollution
- To reduce pollution from cars, the Australian government has legislated that all new cars must use:
A unleaded petrol
B diesel fuel
C leaded petrol
- When phosphate-containing wastes from detergents and fertilisers reach our waterways, water plants grow excessively extracting oxygen from the water causing fish to suffocate. This process is called:
A phosphatisation
B sewage recycling
C eutrophication
- Substances that are easily broken down into harmless substances by decomposers are termed:
A environmentally unfriendly
B biodegradable
C non-biodegradable

9. An example of a species that was introduced to Australia with harmful results is the:

A cactoblastis moth

B cane toad

C potato

10. Instead of using pesticides to eradicate pests, another method using the pest's natural predators or parasites to control its numbers is frequently used. This environmentally friendly method is termed:

A biological control

B predator release

C insecticide management

Q. Answer the question below in your own words.

a. List down the “Environmental Issues Facing the World Today”.

b. Enlist the “Species of Animals that Should be Saved”.

c. Describe the majors that relate to ecology.

d. Name the places to visit to enjoy the environment.

e. Make a list of movies that have an Environmental Theme or Message.

f. List down the ways through which individuals can help the environment.

g. Compile the Laws that Protect the Environment.

h. Name the Products that Have an Environmental Message or Application.

BIOLOGY WEEK 12

Days	CHAPTER.26: BIOTECHNOLOGY	
Monday	—————→	Topic.1: Scope of Biotechnology. https://youtu.be/f1chpHKip7Q
Tuesday	—————→	Topic.2: Recombinant DNA Technology. https://youtu.be/7HvnYSSINdc https://youtu.be/oe1MC1KvbXk https://youtu.be/fzTtIHgEhCU https://youtu.be/ZW9zPdb_Bs0
Wednesday	—————→	Topic.3: Polymerase Chain Reaction. https://youtu.be/MyLrs_h1OIE https://youtu.be/xmHKA2NMr_A https://youtu.be/lfHCFDmQ6ZM https://youtu.be/QVgzo0NczkA https://youtu.be/iQsu3Kz9NYo
Thursday	—————→	Topic.4: DNA Sequencing. https://youtu.be/ONGdehkB8jU https://youtu.be/KAIT3benAHO Activity/ Homework: https://www.khanacademy.org/science/high-school-biology/hs-molecular-genetics/hs-biotechnology/e/hs-biotechnology https://www.prep.youth4work.com/practice-tests/biotechnology-Test/Recombinant-DNA-Questions

Weekly Assessment Worksheet:

Q. Circle the correct choice.

1. Recombinant DNA

- (a) results from the ligation of an isolated gene and plasmid DNA.
- (b) is inserted into a living cell in the transformation process.
- (c) is screened for in the selection process.
- (d) all of the above

2. The steps of gene cloning are, in order,

- (a) isolation, transformation, ligation, and selection.
- (b) isolation, ligation, transformation, and selection.
- (c) ligation, transformation, isolation, and selection.
- (d) selection, transformation, ligation, and isolation.

3. The steps of PCR are, in order,
(a) denaturing, annealing, and extension.
(b) denaturing, extension, and annealing.
(c) annealing, extension, and denaturation.
(d) extension, annealing, and denaturation.
4. Transgenic crops have been created that
(a) yield more food.
(b) resist insect pests.
(c) survive drought.
(d) all of the above
5. Ethical, legal, and social issues associated with biotechnology would include questions about
(a) the safety of genetically modified crops.
(b) the use of biotechnology in modifying a baby's genotype.
(c) the ownership of genetically modified organisms.
(d) all of the above
6. PCR allows scientists to
(a) rapidly make many copies of a gene or other DNA segment.
(b) clone a recombinant DNA in bacteria.
(c) ligate together two pieces of DNA from different sources.
(d) all of the above.

Q. State whether the given statement is true or false.

1. Two common biotechnology techniques are gene cloning and genetic engineering.
2. Gene cloning is the process of isolating and making copies of a chromosome.
3. Biotechnology has raised ethical questions.
4. When genes are cloned, DNA polymerase is used to join two pieces of DNA together.
5. Recombinant DNA is made from joining DNA from different sources.
6. Insulin was the first human protein to be produced by gene cloning.
7. The purpose of biotechnology is to create organisms that are useful to humans.
8. The polymerase chain reaction makes many copies of a gene or other DNA segment.

Q. Answer the following questions.

1. What is gene cloning?
2. What is PCR? Why is PCR done?
3. What are the three steps of PCR?
4. What are the four steps of gene cloning?
5. What is recombinant DNA?
6. Why is it important to select for transformed bacteria?

BIOLOGY WEEK 13

Days	CHAPTER.26: BIOTECHNOLOGY	
Monday	→	<p>Topic.1: DNA Analysis. https://youtu.be/1Vxez_b0dNM https://youtu.be/jMENfMmGb5g https://youtu.be/7onjVBsQwQ8 https://youtu.be/rzWyZFdz-Pw</p>
Tuesday	→	<p>Topic.2: The Human Genome Project. https://youtu.be/qOW5e4BgEa4 https://youtu.be/i_1w9o3CvFY https://youtu.be/-hryHoTIHak</p>
Wednesday	→	<p>Topic.3: Tissue Culture. https://youtu.be/tCvIsWxll14 https://youtu.be/xiWPLF785l8 https://youtu.be/G1n3BgmcVMA https://youtu.be/xuwV3ywCxW8</p>
Thursday	→	<p>Topic.4: Biotechnology and Healthcare. https://youtu.be/s8bYcvLJrJc https://youtu.be/ypw74CpsCwo</p> <p><u>Activity/ Homework:</u></p> <p>https://www.prep.youth4work.com/practice-test_s/biotechnology-Test/Genetics-in-Plants-Questions</p> <p>https://www.prep.youth4work.com/practice-test_s/biotechnology-Test/Synthesis-of-Therapeutic-Agents-Questions</p> <p>https://www.wisdomjobs.com/e-university/biotechnology-practice-tests-568-327309</p>

Weekly Assessment Worksheet:

Q. Choose the best answer.

1. DNA profiling produces a:

- None of these answers are correct.
- New animal that yields more meat.
- New gene that resists disease.
- New crop.
- DNA fingerprint.

2. _____ is a technique that allows doctors to prevent or treat a disease by manipulating genetic material as opposed to administering medication or performing surgery:

- None of these answers is correct.
- Gene forensics.
- DNA profiling.
- DNA forensics.
- Gene therapy.

Q. Answer the following questions.

- i Name the field that uses genetic material for criminal investigations.
- ii What is produced by profiling genetic material during criminal investigations?
- iii Name the technique that allows doctors to prevent or treat diseases by manipulating genetic material.
- iv What has been achieved using genetics?
- v State the benefits of gene therapy.

Self Study

Days	CHAPTER.27: BIOLOGY AND HUMAN WALFARE	
Monday	—————→	Topic. 01: Vaccination and Its Importance. https://youtu.be/Ro8KS0mcJoc https://youtu.be/AQ5FSX1Gg5Y https://youtu.be/tYo1vp9owK8
Tuesday	—————→	Topic. 02: latest Techniques Applied to Enhance Crop and Fruits Yields. https://youtu.be/6IIHv2jMleg
Wednesday	—————→	Topic. 03: Home Gardening. https://youtu.be/vkbn499wsWc
Thursday	—————→	Topic. 04: Role of Microbes in Human Welfare. https://youtu.be/9JB6mqfiZLo . Activity/ Homework: https://study.com/academy/exam/topic/biology-human-welfare.html

Weekly Assessment Worksheet:

Q. Choose the best answer:

1. In Swiss cheese, big holes are made by a

- (a) bacterium producing methane gas
- (b) machine
- (c) fungus releasing a lot of gases while its metabolic activities
- (d) bacterium producing large quantities of carbon dioxide

2. During which stage of the purification of the sewage water are microbes used?

- (a) Primary treatment
- (b) Secondary treatment
- (c) Tertiary treatment
- (d) Both (1) and (2)

3. What does high value of BOD (Biochemical Oxygen Demand) indicate.

- (a) That water is pure
- (b) that water is less polluted
- (c) that water is highly polluted
- (d) that consumption of organic matter by microbes is higher in the water

5. This is a good producer of citric acid

- (a) Aspergillus
- (b) Clostridium
- (c) Saccharomyces
- (d) Pseudomonas

6. This is not an example of performing biological control of diseases/pests using microbes

- (a) Trichoderma sp. against some plant pathogens
- (b) Nucleopolyhedroviral against insects and other arthropods
- (c) Ladybird beetle against aphids
- (d) Bt-cotton to increase yield

7. This is chiefly produced by the activity of an anaerobic bacteria on sewage

- (a) Laughing gas
- (b) Propane
- (c) Mustard gas
- (d) Marsh gas

8. For the production of ethanol, the most common substrate used in distilleries is

- (a) Soya meal
- (b) Molasses
- (c) Ground gram
- (d) corn meal

9. This is not a biofertilizer

- (a) Agrobacterium
- (b) Nostoc
- (c) Rhizobium
- (d) Mycorrhiza

10. Carbon dioxide is not released in which of the following processes?

- (a) Lactate fermentation
- (b) Alcoholic fermentation
- (c) Aerobic respiration in animals
- (d) Aerobic respiration in plants

SUMMER VACATION HOMEWORK 2020
CLASS: XII (FEDERAL BOARD)
SUBJECT: PAKISTAN STUDIES

Reference Book:

1. Textbook
2. Guidebook: Pakistan Studies Complete Solved Exercises
Maryam Publication Rawalpindi-Pakistan.
3. Reference link:
<https://classnotes.xyz/class-12-pakistan-studies-notes-fbise/>

PAKISTAN STUDIES WEEK 8

Day 1		
Unit	Topic	Video Links
Chapter 02	Early problems of Islamic Republic of Pakistan: a) Write a note on the issue of settlement of refugees. b) Give an account of the injustices done by Radcliff on the issue of demarcation of the boundaries?	https://youtu.be/Skba7uKrWmk
Day 2		
Unit	Topic	Video Links
Chapter 02	Kashmir Issue: a) What do you know about the dispute of Jammu and Kashmir?	https://youtu.be/wcx5OgmHANU
Day 3		
Unit	Topic	Video Links
Chapter 02	Important steps to solve the early Problems of Pakistan: a) What steps did Quaid-e-Azam (RA) take to solve the early problems of the Islamic Republic of Pakistan?	https://youtu.be/Skba7uKrWmk

For the exercises based on board pattern, students can take help from:

4. Textbook
5. Guidebook: Pakistan Studies Complete Solved Exercises Maryam Publication Rawalpindi-Pakistan.
6. Reference link: <https://classnotes.xyz/class-12-pakistan-studies-notes-fbise/>

PAKISTAN STUDIES WEEK 9

Day 1		
Unit	Topic	Video Links
Chapter 04	Steps towards Islamic Republic of Pakistan: a) Write a note on the Objective Resolution. b) Compare and contrast Hijjat-ul-wida and UN Declaration of Human Rights.	https://youtu.be/tTPDMMPC01s https://youtu.be/TbRfWgny6RE
Day 2		
Unit	Topic	Video Links
Chapter 04	Constitution of 1956 & 1962: a) Give a detailed account of the Islamic provisions of the 1956 constitution of Pakistan. b) Give a detailed account of the Islamic provisions of the 1962 constitution of Pakistan.	https://youtu.be/rS1VU6wArVE
Day 3		
Unit	Topic	Video Links
Chapter 04	Constitution of 1973: a) Write a comprehensive note on the Islamic provisions of the 1973 constitution of Pakistan.	https://youtu.be/rS1VU6wArVE

For the exercises on the basis of board pattern, students can take help from:

1. Textbook
2. Guidebook: Pakistan Studies Complete Solved Exercises Maryam Publication Rawalpindi-Pakistan.
3. Reference link: <https://classnotes.xyz/class-12-pakistan-studies-notes-fbise/>

PAKISTAN STUDIES WEEK 10

Day 1		
Unit	Topic	Video Links
Chapter 04	Obstacles Interposed in the way of Islamization: a) Explain the obstacles faced in the way of Islamization. Suggest some measures to remove these obstacles.	
Day 2		
Unit	Topic	Video Links
Chapter 04	Rights and Duties: a) Define the words rights and duties. Then, explain the relationship between rights and duties.	https://youtu.be/hx8JTI_asCI
Day 3		
Unit	Topic	Video Links
Chapter 04	Last Sermon of the Prophet (PBUH) a) The Last Sermon of Holy Prophet (PBUH) i.e. Khutba Hajjatul Wada talks about Human Rights comprehensively. Discuss.	https://youtu.be/tS3B2WbUzn0

For the exercises based on board pattern, students can take help from:

1. Textbook
2. Guidebook: Pakistan Studies Complete Solved Exercises Maryam Publication Rawalpindi-Pakistan.
3. Reference link: <https://classnotes.xyz/class-12-pakistan-studies-notes-fbise/>

PAKISTAN STUDIES WEEK 11

Day 1		
Unit	Topic	Video Links
Chapter 05	Administrative structure of Pakistan and the concept of good governance: a) Write a note on Federal Judiciary Supreme Court (Word Limit: 200 words).	https://youtu.be/ILt-Y9WDpEU
Day 2		
Unit	Topic	Video Links
Chapter 05	System of Government	https://youtu.be/pan0yaX9D7w-
Day 3		
Unit	Topic	Video Links
Chapter 05	Composition and function of the national assembly of Pakistan under 1973 constitution: a) Define the composition and function of the national assembly of Pakistan under 1973 constitution.	https://youtu.be/1X3CjIoSNtY

For the exercises on the basis of board pattern, students can take help from:

1. Textbook
2. Guidebook: Pakistan Studies Complete Solved Exercises Maryam Publication Rawalpindi-Pakistan.
3. Reference link: <https://classnotes.xyz/class-12-pakistan-studies-notes-fbise/>

PAKISTAN STUDIES WEEK 12

Day 1		
Unit	Topic	Video Links
Chapter 05	Provincial governments and their power and function: a) How provincial governments are formed and what function do they perform in the Islamic Republic of Pakistan?	https://youtu.be/B5aTHQvOJaM
Day 2		
Unit	Topic	Video Links
Chapter 05	Union Council: a) Illustrate the composition of the Union Council. Explain the functions of union council under the new system of district government.	https://youtu.be/3s3D4GWilcE
Day 3		
Unit	Topic	Video Links
Chapter 05	Concept of good governance in Islam: a) Write an essay on the Islamic concept of good governance.	https://youtu.be/NQ83s8Sk2RM

For the exercises based on board pattern, students can take help from:

1. Textbook
2. Guidebook: Pakistan Studies Complete Solved Exercises Maryam Publication Rawalpindi-Pakistan.
3. Reference link: <https://classnotes.xyz/class-12-pakistan-studies-notes-fbise/>

PAKISTAN STUDIES WEEK 13

Day 1		
Unit	Topic	Video Links
Chapter 06	Culture of the Islamic Republic of Pakistan: a) Define culture. Elaborate its needs and importance in human life	https://youtu.be/dj7RzIR7VU4
Day 2		
Unit	Topic	Video Links
Chapter 06	Fine Arts in Pakistan: a) Write a short note on "Fine Arts in Pakistan"	
Day 3		
Unit	Topic	Video Links
Chapter 03	Culture of Mohenjo-Daro, Taxila and Gandhara: a) Examine and evaluate the culture of Pakistan with reference to Mohenjo-Daro, Taxila and Gandhara.	https://youtu.be/k-e14q7GbDA https://youtu.be/9HSh8DcZ64M https://youtu.be/QUng-iHhSzU

For the exercises based on board pattern, students can take help from:

1. Textbook
2. Guidebook: Pakistan Studies Complete Solved Exercises Maryam Publication Rawalpindi-Pakistan.
3. Reference link: <https://classnotes.xyz/class-12-pakistan-studies-notes-fbise/>

Self Study

Day 1		
Unit	Topic	Video Links
Chapter 07	<p style="text-align: center;">Languages of The Islamic Republic of Pakistan:</p> <p>Urdu language</p> <p>a) Why is Urdu the only national language of Pakistan. Enlist salient features of Urdu language?</p>	https://youtu.be/cmliCpvQdxU
Day 2		
Unit	Topic	Video Links
Chapter 07	<p>Punjabi language:</p> <p>a) Write a comprehensive note on Punjabi language.</p> <p>Sindhi language:</p> <p>a) Write a detailed note on Sindhi language.</p>	https://youtu.be/o0o3U0x1qmQ https://youtu.be/LkEjEwR-M8w
Day 3		
Unit	Topic	Video Links
Chapter 07	<p>Pashto language:</p> <p>a) Write a note on Pashto language. Highlight Pashto Literature and Poetry.</p>	https://youtu.be/PfeznZue3ro

For the exercises based on board pattern, students can take help from:

1. Textbook
2. Guidebook: Pakistan Studies Complete Solved Exercises Maryam Publication Rawalpindi-Pakistan.
3. Reference link: <https://classnotes.xyz/class-12-pakistan-studies-notes-fbise/>

SUMMER VACATIONS HOMEWORK 2020

CLASS: XII (FEDERAL BOARD)

SUBJECT: CHEMISTRY

Chemistry Week-8

Days	Topics	Links
Day 1	<ul style="list-style-type: none">Carbohydrates its classification	https://youtu.be/JxK5rZxbyQY
Day 2	<ul style="list-style-type: none">Proteins and its structures	https://youtu.be/HSCUAjZQhXI https://youtu.be/PPJ7C3hcnPw
Day 3	<ul style="list-style-type: none">Enzymes and its factors	https://youtu.be/ozdO1mLXBQE

Worksheets: Day:1

- Which of the following is the general formula of Ether?
a. R-O-R b. R-CO-R c. R-OH d. R-COO-R
- Which is reddish brown gas?
a. NO b. SO₂ c. O₃ d. NO₂
- Which of the following diseases is caused due to the deficiency of Vitamin-A?
a. Night blindness b. Anaemia c. Scurvy d. Rickets
- The separation of mineral from gangue is called concentration. Which of the following methods is used for concentration?
a. Roasting b. Smelting c. Flotation d. Refining
- Chalcopyrite is ore of:
a. Chromium b. Aluminum c. Copper d. Iron
- Which human activity results in contamination of water bodies?
a. Livestock waste b. Pesticides c. Septic tanks d. All of these
- Which gas has lowest percentage in the air?
a. Oxygen b. Nitrogen c. Hydrogen d. Carbon dioxide

Day:02 Work sheet #02

(Choose the correct answer)

i. Air is polluted by:

- (a) Toxic materials (b) Hydrocarbons
(c) Harmful Gases (d) All of above.

ii. Thickness of ozone is:

- (a) 20-25km (b) 25-28km (c) 30-32km (d) 20-30km

iii. Ozone is destroyed by:

- (a) SO_2 (b) NO_2 (c) Chlorofluorocarbons (d) None of above

iv. In leather industry _____ is used.

- (a) Chromium (b) Chromium iii is issued
(c) Nickel is used (d) Aluminum is used

v. Peroxyacetyl nitrate (PAN) is an irritant.

- (a) Eyes (b) Ears (c) Stomach (d) Nose

vi. Fungicides are the pesticides which

- (a) Control the growth of fungus (b) Kill Insects
(c) Kill Plants (d) Kill herbs

vii. Miticides are used to control

- (a) Ticks and mites (b) Fungi
(c) Unwanted Plants (d) Mice and bats

viii. The branch of chemistry which applies physical and chemical procedures towards the transformation of natural raw material and their derivatives of products is called

- (a) Physical Chemistry (b) Classical Chemistry
(c) Industrial Chemistry (d) Both b and c

ix. Aerosols and lotions are used as.

- (a) Fungicides (b) Repellent (c) Herbicides (d) a and c

x. How many classes of Polymers?

- (a) One (b) Two (c) Three (d) Four

Day: 03

Work sheet # 3

1. Do Quick Quiz (page no: 263)
2. Do Quick Quiz (page no: 269)
3. Do Quick Quiz (page no: 273)
4. Do Quick Quiz (page no: 275)
5. Do Quick Quiz (page no: 280)

Chemistry Week-9

<u>Days</u>	<u>Topics</u>	<u>Links</u>
Day 1	<ul style="list-style-type: none">• Lipids(Fats)	https://youtu.be/BVxeeiR7JB0
Day 2	<ul style="list-style-type: none">• Nucleic acid(DNA and RNA)	https://youtu.be/0IZRASHqft0
Day 3	<ul style="list-style-type: none">• Formation of Protein from DNA	https://youtu.be/gG7uCskUOA

Day: 01

Worksheets:01

(1)What are monosaccharaides?

- (a) Proteins (b) Carbohydrates (c) Lipids (d) Oils

(2)1gram of carbohydrates contains

- (a) 5Kcal (b) 4KCal (c) 8Kcal (d)2KCal

(3) Due to hyperglycaemia, which disease occurs?

- (a) Diarrhea (b) Small pox (c) Diabetes (d) Anthrax

(4) Which is simple protein?

- (a) Peptones (b) Peptides (c) Glycoproteins (d) Albumins

(5) Which one of the following compounds does not contain carboxylic group?

- (a) Acetic acid (b) Formic acid (c) Benzoic acid (d) Picric acid

(6) Biochemistry covers the practical applications of:

- (a) Medicine (b) Agriculture (c) Nutrition (d) All of these

(7) Low valued products produced in large quantities are called

- (a) Commodity Chemicals (b) Performance Chemicals
(c) Fine Chemicals (d) All of these

(8) To what category of molecules do enzymes belong?

- (a) Carbohydrates (b) Lipids (c) Nucleic acid (d) Proteins

(9) Lipids are generally defined in terms of

- (a) Solubility (b) Structure (c) Molarity (d) All of these

(10) The mineral related with the formation of bones and teeth is.

- (a) RNA (b) Phosphorous (c) Iron (d) Sulphur

Day02:

WORKSHEETS

(1) Glass fiber is used for

- (a) Insulation (b) Reinforcement (c) Automotive (d) All of these

(2) Polymerization of vinyl chloride gives

- (a) Polythene (b) Polyvinyl chloride
(c) Thiovinyl chloride (d) Naphthlene

(3) Chemicals which derived from petroleum are called

- (a) Olfins (b) Petrochemicals (c) Detergents (d) Aromatics

(4) Chemicals which control unwanted plants are

- (a) Rodenticides (b) Herbicides (c) Fungicides (d) Mitcides

(5) The wavelength of IR infrared lies between

- (a) 2100nm-2400nm (b) 2000nm-20000nm
(c) 2500nm-25000nm (d) 2200nm -24000nm

(6) Empirical and molecular formulas contains

- (a) Carbon (b) Hydrogen (c) Oxygen (d) All of these

(7) The spectrum is produced by an instrument called as

- (a) Spectrometer (b) Spectroscopy (c) Photometer (d) Hydrometer

(8) The peak at about 3400cm⁻¹ corresponds

- (a) O-H bond (b) C-O bond (c) C-H bond (d) C-X bond

(9) Which raw materials are obtained from hydrosphere?

- (a) Sodium Chloride (b) Carbon (c) Natural gas (d) Oxygen

(10) Those dyes which can be applied to a fabric by direct immersion in a water solution of the dyes are

- (a) Vat dyes (b) Mordant dyes (c) Azoic dyes (d) Direct dyes

Day:03

- a. Briefly state the functions of Carbohydrates.**
- b. How does PH affect enzymes activity?**
- c. Briefly state how Vitamin D is formed in human body.**
- d. Explain the structure of proteins.**
- e. Describe four important minerals and their sources.**

Chemistry Week-10

Days	Topics	Links
Day 1	<ul style="list-style-type: none">Spectroscopy and its principle	https://youtu.be/dkARLSQWH H8
Day 2	<ul style="list-style-type: none">Visible and Ultraviolet Spectroscopy	https://youtu.be/wxrAELeXlek
Day 3	<ul style="list-style-type: none">Atomic Emission Spectroscopy	https://youtu.be/L5jEePYQfCM https://youtu.be/9DYV25Ki-kc

Worksheets:

Day:1

1. Give significant applications of Atomic Emission Spectroscopy (AES).
2. What are the sources of air pollution?
3. Differentiate between industrial and photochemical smog
4. What is combustion analysis? Describe its different steps.
5. Describe different chemical reactions occurring in our atmosphere.
6. What is waste water treatment? Discuss different methods of it.
7. An organic compound consists of carbon, hydrogen and oxygen was subjected to combustion analysis 0.5439g of the compound gave 1.039g of CO₂ ,0.6369g of H₂O.Determine the formula of the compound.
8. Do Quick Quiz(Page no:351)
9. Do Quick Quiz(Page no:354)
10. Differentiate between Continuous emission spectrum and Atomic or Line spectrum.

Day:02

- (1) Which dye is used in boot polish?
(a) Azo dye (b) Congo red (c) Methyl orange (d) Bismarck brown
- (2) Aerosole and lotions are used as
(a) Fungicides (b) Repellent (c) Herbicides (d) a and c
- (3) Which one of the following fractions of petroleum is no good as a fuel, but valuable raw material?
(a) Naphtha (b) Gasoline petrol (c) LPG (d) Paraffin
- (4) A chemical compounds which is meant to stick things together
(a) Nail polish (b) Lipstick (c) Hair dye (d) Adhesives
- (5) The Polymers which are prepared from more than one kind of monomer are
(a) Homopolymer (b) Copolymer (c) Addition polymer (d) None
- (6) Nylon is a polymer obtained by.
(a) Addition polymer (b) Homopolymer
(c) Condensation Polymerization (d) None
- (7) Which compound is called a universal solvents?
(a) H₂O (b) C₂H₅OH (c) CH₃OH (d) CH₃OHCH₃
- (8) Which Ethanol can be converted into ethanoic acid by?
(a) Hydrogenation (b) Oxidation (c) Hydration (d) Fermentation
- (9) A methyl phenol is also called.
(a) A Cresol (b) Benzyl alcohol (c) Formaldehyde (d) Alcohol
- (10) Hydrogen bonding is maximum in.
(a) Diethyl ether (b) Methanol (c) Ethyl alcohol (d) Triethyl amine

Day:03

(11) Carboxylic acid is treated with dilute nitric and at 25°C the product is.

- (a) O-nitrophenol (b) m-nitrophenol (c) P-nitrophenol (d) Both a & b

(12) 2,4,6 Trinitrophenol is commercially called as,

- (a) TNT (b) Carboic acid (c) Picric acid (d) Fumeric acid

(13) Ketones are prepared by the oxidation of

- (a) Primary alcohol (b) Secondary alcohol
(c) Tertiary alcohol (d) None of these

(14) Cannizaros reaction is not given by.

- (a) Formaldehyde (b) Acetaldehyde
(c) Tri methyl acetaldehyde (d) Benzaldehyde

(15) Which of the following reagent will react with both aldehyde ketones?

- (a) Fehling s reagent (b) Grignard reagent
(c) Benedict s reagent (d) Tollen's reagent

(16) Phenyl hydrazone on treatment with carbonyl compounds produce.

- (a) hydroxyl amine (b) oximes (c) phenyl hydrazone (d) none of these

(17) General formula of aldehydes and ketones is?

- (a) $C_nH_{2n}O$ (b) $C_nH_{2n+1}O$ (c) C_nH_nO (d) $C_nH_{2n+2}O$

(18) The color of Iodoform is.

- (a) White (b) Black (c) Yellow (d) Blue

(19) Aldehydes are the oxidation product of.

- (a) p- alcohol (b) s-alcohol (c) ter-alcohol (d) carboxylic acids

(20) Which of the following compounds will not give iodoform test on treatment with NaOH/ I₂

- (a) Acetaldehyde (b) Acetone (c) Butanone (d) 3-pentanone

Chemistry Week-11

Days	Topics	Links
Day 1	<ul style="list-style-type: none">S-block Elements	https://youtu.be/y7r1X3K-Ss4
Day 2	<ul style="list-style-type: none">Trends in chemical properties of Alkaline Earth Metals	https://youtu.be/UNPowKgh4ZQ
Day 3	<ul style="list-style-type: none">Behavior of Alkali Metals	https://youtu.be/osQTufIWxeA

Worksheets:

Day:1

- (i) How is formaldehyde prepared industrially?
- (ii) What is haloform reaction?
- (iii) Give composition of nail polish and lipstick.
- (iv) What are the natural sources of raw materials for chemical industry?
- (v) Differentiate between pesticides and insecticides.
- (vi) How formaldehyde reacts with following
 - (a) HCN
 - (b) H₂SO₄
- (vii) Define adhesives. What are the types of adhesives?
- (viii) What is the difference between thermoplastic and thermosetting polymers?
- (ix) What is fractional distillation? How is fractional distillation of petroleum performed?
- (x) Give the mechanism of dehydration of alcohol.

Day:02

1. How will you differentiate between alcohol and phenol?
2. On what factors does the oxidizing power of halogens depend?
3. Explain why solubility of alkaline earth metal carbonates decrease down the group.
4. CO₂ is a gas while SO₂ is a solid although C and Si belong to the same group. Give reason.
5. Why all group I have low ionization energy?
6. Why different colors are imparted by the atoms of group I metals to the flame?
7. Do Quick Quiz (**Page no: 25 and 29**)

Day:03

Q1. Encircle the correct answer.

1. When sodium burns in air, it forms sodium ...
(a) monoxide (b) peroxide (c) oxide (d) superoxide
2. Oxides and hydroxide of group I elements are,
(a) Acidic (b) alkaline (c) neutral (d) amphoteric.
3. The first ionization energy is higher for the,
(a) Halogens (b) alkaline earth metals
(c) alkali metals (d) noble gases
4. Which elements form alloys?
(a) Alkali metals (b) Halogens
(c) Transition elements (d) Alkali earth metals
5. Which pair has both members from the same period?
(a) Na – Ca (b) Na – Cl (c) Ca – Cl (d) Cl – Br
6. Which of the following oxide is amphoteric in nature?
(a) MgO (b) BaO (c) CO₂ (d) SnO₂
7. Green is the characteristic flame color of;
(a) Calcium (b) Barium
(c) Strontium (d) Sodium
8. .Group VII – A elements are generally called:
(a) Halogens (b) Nobel gases
(c) Inert gases (d) Metalloids.
9. Coinage metals are actually:
(a) Halogens (b) Transition metals
(c) Alkali metals (d) Alkaline earth metals.
10. Which of the following is non-typical transition elements?
(a) Fe (b) Mn (c) Zn (d) Cr

Chemistry Week-12

Days	Topics	Links
Day 1	<ul style="list-style-type: none">Peculiar Behavior of Lithium	https://youtu.be/G308aD3cjLQ
Day 2	<ul style="list-style-type: none">Peculiar Behavior of Beryllium	https://youtu.be/JNROvPkBNTA
Day 3	<ul style="list-style-type: none">d-Block (Transition elements)	https://youtu.be/O9Z8ntDna-M

Worksheets:01

Day:1

1. Why do the d-block elements show variable oxidation states?
2. How does dichromate ion convert into chromate ion?
3. What are the advantages of potassium dichromate in titration?
4. What is the valence shell configuration of transition elements? How does it affect binding energy?
5. Write composition, properties, and uses of Brass, Bronze, and Nichrome alloys.
6. Write general features of transition elements.
7. Do Quick Quiz(Page no:60)
8. Do Quick Quiz(Page no:65)

Day:02

1. Write down three reasons which gave the importance of functional groups for the organic compounds.
2. Write down the products from fractional distillation?
3. What are Bucky Balls?
4. What is Homologous Series?
5. Differentiate between Saturated and Unsaturated Hydrocarbons.
6. Write down the preparation of Alkenes with two examples.
7. Give Mechanism Reaction of Hydrohalogenation with Alkenes.
8. Write down any two differences between structural isomerism and stereoisomerism?

Day:03

1. Give reaction mechanism for the conversion of Acetylene in Acetaldehyde.
2. Define Resonance, Resonance Energy and stabilization of Benzene.
3. Write down the mechanism for the electrophilic nitration reaction of benzene?
4. What are uses of Hydrocarbons?
5. Name the structures of the following.
6. (a) $\text{CH}_3\text{-CH}_2\text{-C=CH}$ (b) HC=C-C=CH
7. Give the structures of the following.
8. (a) 2,4,6-Trinitrotoulene (b) Benzoic Acid (c) Bromobenzene

○

Chemistry Week-13

<u>Days</u>	<u>Topics</u>	<u>Links</u>
Day 1	• Oxidation State of Transition Elements	https://youtu.be/cyz1IOdQ0EU
Day 2	• Alloy Formation	https://youtu.be/YtOrktl0nU8
Day 3	• Magnetic behavior of Transition Elements	https://youtu.be/7QZqgp_3kFo

Worksheets: 01

Day:1

- i. Write down three differences between DNA and RNA?
- ii. Write down three harmful effects of acid rain?
- iii. What are the vat dyes? How are they used? Given an example.
- iv. Write down two difference between CW-NMR spectrometer and FT-NMR spectrometer.
- v. What is combustion analysis?
- vi. Give different types of repellent?
- vii. Write down the principle of fractional Distillation?
- viii. On what factors tooth decay depend?
- ix. An unknown organic compound contains only carbon, Hydrogen and oxygen. On combustion analysis 17.471 gm of this compound produce 10.477 gm of H₂O and 25.612 gm of CO₂. Determine mass of Hydrogen carbon and oxygen present in this compound. Atomic mass of C,O,H are 12, 16,1 respectively.

○

Day:02

1. Write structural formula of Glucose and Fructose?
2. What is Smog? What are its types?
3. What is PAN?

4. What are the products of fractional distillation of Coal tar?
5. What are the uses of organic compound?
6. Explain Molecular orbital treatment of Benzene?
7. Define Polymers. How are they classified? Explain each type giving an example.

8. Define the following terms
(i) Fungicides (ii) Herbicides (iii) Insecticides

Day03

1. Describe Role of Fluoro-Chloro Carbon is destroying Ozone (CFC13)
2. Write down the advantages and disadvantages of Emission Spectroscopy.
3. Explain Visible and Ultra violet spectroscopy (UV- Vis)
4. What is the function of Mass Spectrometer?
5. What are lipids? Write down its classification? Write down its properties
6. Write down Green House Effect?
7. Explain the classification of Proteins.

○

Self Study

Days	Topics	Links
Day 1	<ul style="list-style-type: none"> • Nomenclature of Co-ordination Compounds 	https://youtu.be/LKM_p1w--s
Day 2	<ul style="list-style-type: none"> • Vanadium's Oxidation State 	https://youtu.be/zymAPWSODE Y
Day 3	<ul style="list-style-type: none"> • Chromium's Oxidation State 	https://youtu.be/xmsgngs5IVjl

Worksheets:

Day:1

i. Which one is NOT correct order of stability of oxidation states of group IV A elements?

- a. $\text{Ge}^{+4} > \text{Sn}^{+4}$ b. $\text{Sn}^{+4} > \text{Pb}^{+4}$ c. $\text{Ge}^{+4} > \text{Ge}^{+2}$ d. $\text{Pb}^{+4} > \text{Pb}^{+2}$

ii. Electronic configuration of a transition element X in +2 oxidation state is $[\text{Ar}] 3d^5$. What is its Atomic number?

- a. 25 b. 26 c. 27 d. 24

iii. The abnormal enlargement of thyroid gland is due to deficiency of _____ in diet.

- a. Florine b. Chlorine c. Iodine d. Bromine

iv. The correct name of the complex ion, $[\text{Zn}(\text{N}-\text{CH}_2-\text{CH}_2\text{H}_2-\text{NH}_2)_3]^{2+}$ is:

- a. Tri ethylene di ammine zinc (II) b. Tri ethylene di ammine zincate (II)
 c. Tris ethylene di ammine zinc (II) d. Tris ethylene di ammine zincate (II)

v. In the reaction with aqueous copper(II) complex; $[\text{Cu}(\text{H}_2\text{O})_6]^{2+}$ is:

- a. An acid b. A base c. A salt d. A nucleophile

vi. The coordination number of Zinc in the complex ion $[\text{Zn}(\text{NH}_2-\text{CH}_2-\text{CH}_2-\text{NH}_2)_3]^{2+}$ is:

- a. 3 b. 4 c. 5 d. 6

vii. Which one of the following can be used to distinguish between Fe⁺² and Fe⁺³ ions?

- a. MnO⁴⁻ b. CrO₄²⁻ c. Cr₂O₇²⁻ d. SCN⁻

viii. Which of the following alloys is used in the preparation of Raney Nickel?

- a. Ni-Al b. Ni-Cu c. Ni-Ag d. Ni-Cd

ix. The reagent used to detect phosphorus present in an organic compound is:

- a. Ammonium Meta Vanadate b. Ammonium Molybdate
c. Ammonium Phosphorus Molybdate d. Ammonium Chloride

x. Sarett reagent is:

- a. K₂Cr₂O₇/H₂SO₄ b. CrO₃/NaOH c. CrO₃/Pyridine d. KMnO₄/H₂SO₄

Day:02

1. Shortly explain the only property that all the lipids have in common. Ethers can be prepared by the reaction of alkyl halides with:

- a. Cu₂O b. Na₂O c. Ag₂O d. PbO

2. Which one of the following is NOT present in RNA?

- a. Adenine b. Guanine c. Cytosine d. Thymine

3. In IR spectrum of an organic compound, a strong peak at 1720cm⁻¹ is due to:

- a. O-H bond b. C-H bond c. C=O bond d. N-H bond

4. The industrial smog contains smoke mixed with:

- a. O₃ b. SO₂ c. SO₃ d. CO₂

5. The carbon atom in formaldehyde is:

- a. sp hybridized b. sp² hybridized c. sp³ hybridized d. dsp² hybridized

6. R-CN gives _____ when it is reacted with LiAlH₄

- a. 1° Amine b. 2° Amine c. 3° Amine d. No reaction

7. Acetic acid reacts with Na metal to form:

- a. Salt+CO₂ b. Salt+H₂ c. Salt+H₂O d. Only Salt

Day:03

1. Na₂O is more basic than MgO. Give two reactions.

- 2. Electron affinity of fluorine is less than that of other halogens.
3. Fluorine has the least bond enthalpy among halogens.

4. Calculate the magnetic moment of a divalent ion in aqueous solution, if its electronic configuration is [Ar]3d⁵.

5. Why the tetrahalides of carbon are not hydrolysed whereas these of Si, Ge and Sn are easily hydrolysed?

6. Describe the trend in the nature of hydroxides of elements of 3rd period.
7. Write the behavior of Hexaaquacopper(ii) ions with:
 - i. Hydroxide ions
 - ii. Ammonia solution
 - iii. Carbonate ions

○

SUMMER VACATIONS HOMEWORK 2020
CLASS: XII (FEDERAL BOARD)
SUBJECT: PHYSICS

PHYSICS WEEK-8

Day 1 –Overview

S. No.	Topic	Activity
1	<u>First Attempt and Challenges</u> ➤ N-type and P-type semiconductor https://youtu.be/5ZNeDxfgYAE	➤ See book pg #274
2	➤ Rectification https://youtu.be/q902y7SXcWE	➤ See book pg #279

Day 1 - Home Work

1. Current in semiconductor is caused by the movement of _____.

(Choose only one correct answer)

Both electrons and holes

Electrons only

Holes only

None of these

2. Most Of the electrons in the base of a NPN transistor flow _____.

(Choose only one correct answer)

Into the base supply

Into the emitter

Into the collector

Out of the base lead

Short answer questions:

Q1: Explain Why CE configuration is widely used in amplifier circuit.

○

Day 2 –Overview

S.No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Common base configuration https://youtu.be/zlJlmvF7rK4	<input type="checkbox"/> See book pg #283

Day 2 - Home Work

Choose only one correct answer

1. In insulator the conduction band is _____.

- Completely filled
- Partially filled
- Empty
- All of these

2. In a transistor, collector current is controlled by _____.

- Collector resistance
- Base current
- Collector voltage
- All of these

3. An addition of impurity into intrinsic _____ is called doping.

- Conductor
- Super conductor
- Semi conductor
- All of these

4. P-N junction can be used as _____.

- Amplifier
- Oscillator
- Modulator
- Rectifier

Short answer question

Q: Briefly explain PN junction.

Day 3 –Overview

S.No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Transistor as an amplifier https://youtu.be/wKE2G48-pBA	<input type="checkbox"/> See book pg #286

Day 3 - Home Work

Choose only one correct answer

1. The transistors are made from _____.

- Plastic
- Metals
- Insulators
- Doped semiconductors

2. Depletion region has _____.

- Collector resistance
- Base current
- Collector voltage
- All of these

Long answer question

Q: Explain the working of transistor as an amplifier.

○

PHYSICS WEEK-9

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Black body radiation https://youtu.be/VIbbSWmiWPw	See book pg. #306

Day 1 - Home Work

Choose only one correct answer

1. Who gave the idea of matter wave?

- De-Broglie
- Planck
- Einstein
- Huygens

2. Which of the following phenomenon can be studied with γ -rays?

- Photoelectric effect
- Compton effect
- Pair production
- All of these

Long answer question:

Q: State and explain Heisenberg's uncertainty principle. Justify the validity of this principle by a thought experiment.

○

Day 2 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Photoelectric effect https://youtu.be/0b0axfyJ4oo	<input type="checkbox"/> See book pg #311

Day 2 - Home Work

1. Pair production occurs only when the energy of photon is _____.
(Choose only one correct answer)

- 1.02 KeV
 1.02 eV
 1.02 MeV
 1.02 GeV

Long answer question (Numerical):

Q: Calculate the wavelength of de-Broglie wave associated with electrons accelerated through a potential difference of 200 V.

Day 3 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> Compton's effect https://youtu.be/s99Hn0TeAyo	See book pg #317

○

Day 3 - Home Work

1. The Compton shift in wavelength is given by _____.

(Choose only one correct answer)

- $\lambda_c = \frac{h}{m_0 c} (1 - \cos\phi)$
- $\lambda_c = \frac{h}{m_0 c^2} (1 + \cos\phi)$
- $\lambda_c = \frac{hc}{m_0} (1 - \cos\phi)$
- None of these**

Short answer question:

Q: Why don't we observe Compton's effect with visible light?

0

PHYSICS WEEK-10

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> Spectrum of hydrogen atom https://youtu.be/2pIJX3UOJy0	See book pg. #344

Day 1 - Home Work

1. If 13.6eV energy is required to ionize the hydrogen atom then the required energy to remove an electron from $n=2$ is _____. (Choose only one correct answer)

- 10.2 eV
- 0 eV
- 3.4 eV
- 6.8 eV

2. For an atom of hydrogen atom the radius of the first orbit is given by _____.
(Choose only one correct answer)

- h/me^2
- $me/4h^2$
- $h^2/4\pi^2kme^2$
- h^2me^2

Long answer questions

Q: State Bohr's theory and its postulates. Also derive the relation for radius of hydrogen atom.

○

Day 2 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> X-rays https://youtu.be/8T6J8guSRrl	See book pg #357

Day 2 - Home Work

1. X-rays are radiation of _____. (Choose only one correct answer)

- High energy
- High frequency
- Low wavelength
- All of these

2. X-rays are affected by _____.

(Choose only one correct answer)

- Electric field
- Magnetic field
- Electric and magnetic field
- None of these

Long answer questions

Q: Write properties of X-rays.

○

Day 3 – Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Laser https://youtu.be/I69NYm93aHc	See book pg #364

Day 3 - Home Work

(Choose only one correct answer)

1. When electron is in lowest energy state it is called _____.

- Ground state
- Excited state
- Ionized state
- None of these

2. LASER can only be produced if an atom in its _____.

- Normal state
- Excited state
- Ionized state
- De-excite state

3. Laser is a device which can produce _____.

- Intense beam of light
- Coherent beam of light
- Monochromatic beam of light
- All of these

4. The Balmer series is obtained when all the transition of electrons terminate on

_____.

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

Short answer question

Q: State what is LASER and also describe its work function.

○

PHYSICS WEEK-11

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Radioactivity https://youtu.be/BHD1fcF37i8	<input type="checkbox"/> See book pg #386

Day 1 - Home Work

(Choose only one correct answer)

1. Atoms of the element having atomic number greater than 82 are naturally _____.

- Radioactive
- Isotopes
- Isobars
- Neutrals

2. Who discovered the phenomenon of radioactivity?

- Henry Becquerel
- Marie Curie
- Neil Bohr
- None of these

3. Nuclei of different elements are identified by their _____.

- Atomic number
- Mass number
- Nuclear charge
- None of these

4. The type of radiation which can burn the human skin is called _____.

- X-rays
- Microwaves
- Ultraviolet
- Infrared

Short answer question:

Q: Explain the phenomenon of half life of a radioactive element.

Day 2 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> Gieger-Muller Counter https://youtu.be/w4DMfT3rbKs	See book pg #397

Day 2 - Home Work

Long answer questions

Q: State Alpha decay in a nuclear reaction in detail.



Day 3 – Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u>	See book pg #401
2	<input type="checkbox"/> Nuclear Fission https://youtu.be/ivCOnIsW3IA <input type="checkbox"/> Nuclear Fusion https://youtu.be/K6V5Azdy4es	See book pg #406

Day 3 - Home Work

(Choose only one correct answer)

1. How many types of nuclear reactor?

- 2
- 3
- 4
- **None of these**

2. When two lighter nuclei are fuse together to form a heavy nucleus is called _____.

- **Fission**
- **Fusion**
- **Radioactivity**
- **None of these**

3. When an alpha particle collides with an atom of a gas, it knocks out _____.

- **Neutron**
- **Proton**
- **Electron**
- **Positron**

○

4. Atomic mass (u) is used to measure the _____.

• **Mass**

• **Length**

• **Time**

• **None of these**

5. Nuclear force exist between _____.

- **Neutron-Neutron**
- **Proton-Proton**
- **Proton-Neutron**
- **All of these**

○

PHYSICS WEEK-12

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Laser printer https://youtu.be/l69NYm93aHc	<input type="checkbox"/> See book pg #15

Day 1 - Home Work

1. A one microfarad capacitor of a TV is subjected to 4000V potential difference. The energy stored in a capacitor is _____.

(Choose only one correct answer)

- 16 J
- 8 J
- 4×10^{-3} J
- 2×10^{-3} J

2. What will be the Electric flux of the surface which is placed perpendicular to the electric field?

(Choose only one correct answer)

- $\phi = EA$
- $\phi = 0$
- $\phi = EA \cos\theta$
- None of these

Long answer question:

Q: What is Electric flux? Explain. Using mathematical expression of electric flux to show that how electric flux is maximum and minimum.

○

Day 2 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Resistivity https://youtu.be/QviTXpwBeMU	<input type="checkbox"/> See book pg #71

Day 2 - Home Work

1. The unit of resistivity is _____

(Choose only one correct answer)

- Ω/m
- Ωm
- m/ Ω
- N/m

2. The reciprocal of resistivity of the conductor is _____.

(Choose only one correct answer)

- **Conductance**
- **Capacitance**
- **Conductivity**
- **None of these**

Short answer question:

Q1: Differentiate between resistance and resistivity?

Q2: Why rise in temperature of a conductor is accompanied by rise in resistance?

○

Day 3 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> Ampere's Law https://youtu.be/8Cz-vVzG3vQ	See book pg #116

Day 3 - Home Work

(Choose only one correct answer)

1. The unit of magnetic flux is _____.

• Tesla

• Henry

• Coulomb

• Weber

2. One Weber is equal to _____.

• $N.A^2/m$

• Nm^2/A

• $N.A/m$

• $N.m/A$

3. Ampere's law is applicable to _____.

Any closed path

Circular path

Rectangular path

None of these

4. A moving charge is surrounded by _____.

- 4 fields
- 3 fields
- 2 fields
- None of these

Long answers questions

Q: Derive the relation for magnetic field due to a current carrying solenoid.

.

○

PHYSICS WEEK-13

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Faraday's Law of electromagnetic induction https://youtu.be/OHzlJwmdGI4	See book pg #149

Day 1 - Home Work

1. Lenz's Law is a consequence of the law of conservation of _____.
(Choose only one correct answer)

- Energy
- Charge
- Momentum
- None of these

2. The transformer works on the base of _____.

- None of these
- Mutual induction
- Self induction
- Henry effect

Short answer question

Q: Define Faraday law of electromagnetic induction along with its postulates?

Q: Differentiate between Dynamic and Static induced emf with examples.

○

Day 2 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> AC motor https://youtu.be/SzXp39fNdUk	<input type="checkbox"/> See book pg #166

Day 2 - Home Work

1. . The most common source of AC is _____.
(Choose only one correct answer)

- AC generator
- Battery
- Dynamics
- Transformer

Short answer question

Q: Explain the phenomenon of self-induction. Define the coefficient of self-induction and its units.

Q: Define the term back e.m.f.?

Day 3 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> RLC series AC circuit https://youtu.be/pSCWdsFgErE	<input type="checkbox"/> See book pg #210

○

Day 3 - Home Work

• Choose the Correct Answer

1. By doubling the frequency of alternating current _____.

- X_c becomes double
- X_L becomes double
- X_L becomes half
- Both halves

2. The reactance of a inductor is _____.

- $2\pi/fL$
- $2\pi fL$
- $1/2\pi fL$
- $fL/2\pi$

3. The device use for the conversion of A.C to D.C is called _____.

- Modulator
- Detector
- Rectifier
- Oscillator

4. The resonance frequency of R-L-C series circuit is given by _____.

- $1/2\pi\sqrt{LC}$
- $\sqrt{LC}/2\pi$
- $2\pi/\sqrt{LC}$
- None of these

Long answer questions

Q: Derive the relation for RLC series AC circuit.

○

Self Study

Day 1 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Classification of solids https://youtu.be/Xt48hFdYrXc	<input type="checkbox"/> See book pg #237

Day 1 - Home Work

1. Which one is ferromagnetic in nature.?

(Choose only one correct answer)

- **Copper**
- **Soft iron**
- **Nickel**
- **None of these**

Short answer question:

Q: Describe classification of solids?

○

Day 2 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Elastic moduli https://youtu.be/b_m5ollfUmE	<input type="checkbox"/> See book pg # 243

Day 2 - Home Work

1. Polythene, Polystyrene and nylon are the examples of _____.

- Glassy
- Amorphous
- Crystalline
- Polymeric

Long answer question:

Q: Write a note on Elastic moduli.

Day 3 –Overview

S, No.	Topic	Activity
1	<u>First Attempt and Challenges</u> <input type="checkbox"/> Superconductors https://youtu.be/8aBkQKTCRe8	<input type="checkbox"/> See book pg #255

Day 3 - Home Work

1. Substance which just break just after the elastic limit is reached are called _____.
(Choose only one correct answer)

- Hard
- Ductile
- Brittle
- Soft

2. In insulator the conduction band is _____.
(Choose only one correct answer)

- Completely filled
- Partially filled
- Empty
- All of these

Short answer questions:

Q: Explain Superconductors?

○

SUMMER VACATIONS HOMEWORK 2020

CLASS: XII (FEDERAL BOARD)

SUBJECT: COMPUTER SCIENCE

ARRAYS AND STRINGS

a. Day1-Introduction to Array

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
Unit. 5	<u>ARRAYS AND STRINGS</u> 5.1 Introduction to Arrays: <ul style="list-style-type: none">• <u>Concept of an Array.</u>• <u>Declaring and array</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.1&v=cs-arrays-1• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.1&v=cs-arrays-2• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.1&v=cs-arrays-7	Practice Array examples https://www.tutorialspoint.com/compile_cpp_online.php

b. Day 1. Homework

Execute following program using online compiler

```
#include <iostream>
#include <string>
using namespace std;
int main() {
string cars[4] = {"Volvo", "BMW", "Ford", "Mazda"};
cout << cars[0];
return 0;
}
```

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_array

c. Day2- Initialization of array

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
Unit .5	ARRAYS AND STRINGS 5.1 Introduction to Arrays : <ul style="list-style-type: none">• <u>Initialization of Array .</u>• <u>Using Arrays in Programs</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.1&v=cs-arrays-8a• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.1&v=cs-arrays-8	Practice Array examples https://www.tutorialspoint.com/compile_cpp_online.php

d. Day 2. Homework

Execute following program using online compiler

```
#include <iostream>
#include <string>
using namespace std;
int main() {
string cars[4] = {"Volvo", "BMW", "Ford", "Mazda"};
cars[0] = "Opel";
cout << cars[0];
return 0;
}
```

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_array_change

e. Day3- Two Dimensional Arrays

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
Unit .5	<u>ARRAYS AND STRINGS</u> <ul style="list-style-type: none">• <u>The size of() Function.</u> <u>5.2 Two Dimensional Arrays</u> <ul style="list-style-type: none">• <u>Introduction to Two Dimensional Arrays</u>• <u>Defining and Initializing A Two Dimensional Array</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.2&v=cs-arrays-15a• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.2&v=cs-arrays-16	Practice Array examples https://www.tutorialspoint.com/compile_cpp_online.php

1. Day 3. Homework

Practice Two-Dimensional Array Example

Click on following link

<https://www.programiz.com/cpp-programming/online-compiler/?ref=7c886915>

WEEK WISE ASSESSMENT

- **Write Short Answers**

- What is meant by an array? Define its concept with the help of examples.
- How do we declare an array in C++?
- How do we initialize an array in C++?

- **Solve MCQ's**

1. Which of the following correctly declares an array?

a. `int array[10]`

b. `int arrays`

c. `array{10}`

d. `array arr[10]`

2. Which of the following access seventh element stored in array?

a. `Arr[6]`

b. `Arr[7]`

c. `array[10]`

d. `array arr[10]`

3. Which of the following identifies the first element in array named temp?

a. `temp[0]`

b. `temp[1]`

c. `temp[2]`

d. `temp[3]`

- **Write output of the following program:**

```
#include <iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
int main() {
```

```
string cars[4] = {"Volvo", "BMW", "Ford", "Mazda"};
```

```
for(int i = 0; i < 4; i++) {
```

```
    cout << i << ": " << cars[i] << "\n";
```

```
    return 0;}
```

ARRAYS AND STRINGS

a. Day 1- Strings

<u>Unit</u>	<u>Topic</u>	<u>Worksheet/Activity</u>
Unit .5	<u>ARRAYS AND STRINGS</u> <ul style="list-style-type: none">• <u>Accessing and Writing in a Two Dimensional Array</u> <u>5.3 Strings.</u> <ul style="list-style-type: none">• <u>Introduction to Strings</u>• <u>Defining a String</u>• https://sabaq.pk/chapter-page.php?vg=federal-computer%20science-12th&vsq=federal-computer%20science-12th-5• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.3&v=cs-fund-45	<u>Run examples of strings</u> https://www.tutorialspoint.com/compile_cpp_online.php

b. Day 1 Homework

Practice String Example

Click on following link

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_strings

c. Day 2- Initializing Strings

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
Unit .5	<u>ARRAYS AND STRINGS</u> <u>5.3 Strings</u> <ul style="list-style-type: none">• <u>Initializing Strings.</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.3&v=cs-arrays-22• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.3&v=cs-arrays-27	<u>Run examples of strings</u> https://www.tutorialspoint.com/compile_cpp_online.php

d. Day 2 Homework

Answer these questions

Click on the link below to answer.

<https://study.com/academy/practice/quiz-worksheet-string-class-in-c.html>

e. **Day 3- Commonly Used Strings Functions**

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
Unit .5	ARRAYS AND STRINGS 5.4 Commonly Used Strings Functions; Concatenation , Length, Comparision <ul style="list-style-type: none">• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.4&v=cs-arrays-24• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.4&v=cs-arrays-27• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.4&v=cs-arrays-25• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-5.4&v=cs-arrays-32	<u>Online Execute String Examples</u> https://www.tutorialspoint.com/compile_cpp_online.php https://sabaq.pk/chapter-page.php?vg=federal-computer%20science-12th&vsg=federal-computer%20science-12th-5

f. **Day 3 Homework**

Practice Strings Functions examples

Click on the link below to answer.

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_strings_length

3. Which of the following is a two-dimensional array?

b. `int temp[20] [20]`

c. `int temp[2]`

b `int temp[20, 20]`

d. `int temp[]`

• **Write output of the following program:**

```
#include <iostream>
#include <string>
using namespace std;
int main(int argc, charconst*argv[])
{
    string s1 = "Hello";
    string s2 = "World";
    string s3 = s1 + " " + s2;
    cout<<s3;
    return 0;
}
```

○

Computer Science Week-10

FUNCTIONS

a. Day1- Introduction to Functions

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
<u>Unit. 6</u>	<u>FUNCTIONS</u> 6.1 Functions. <ul style="list-style-type: none">• <u>Types of Functions</u>• <u>Advantages of Functions</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.1&v=cs-function-2• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.1&v=cs-function-5	Run program of Function https://www.tutorialspoint.com/compile_cpp_online.php

b. Day 1 Homework

Practice Functions examples

Click on the link below to answer.

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_functions

c. Day2- Function Signature and Components

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
<u>Unit 6</u>	<u>FUNCTIONS</u> 6.1 Functions <ul style="list-style-type: none">• <u>Function Signature.</u>• <u>Function Components</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.1&v=cs-function-6• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.1&v=cs-function-10• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.1&v=cs-function-12	Run program of Function https://www.tutorialspoint.com/compile_cpp_online.php

d. Day 2 –Homework

Practice Functions examples

- Click on the link below to answer.

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_functions_param

e. **Day 3- Scope of Variables in Functions**

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
Unit 6	<u>FUNCTIONS</u> <u>6.1 Functions</u> <ul style="list-style-type: none">• <u>Scope of Variables in Functions.</u>• <u>Parameters.</u>• <u>Local and Global Functions</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.1&v=cs-function-13• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.1&v=cs-function-15	Run program of Function https://www.tutorialspoint.com/compile_cpp_online.php

f. **Day 3- Home Work**
Practice Functions examples

Click on the link below to answer.

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_functions_param_def

WEEK WISE ASSESSMENT

Write Short Answers

- Why there is a need of function in programming?
- What is function?
- Write down some advantages of functions.
- Define user defined functions in programming.
- Write output of the following program:

```
#include <iostream>
using namespace std;
// Function declaration
void myFunction();
// The main method
int main() {
myFunction(); // call the function
return 0;
// Function definition
void myFunction() {
cout << "I just got executed!";
}
```

• Solve MCQ'S

1. _____ the function body contains a collection of statements that define what the function does.
- a. Function Body
 - b. Parameters
 - c. Function Name
 - d. Return Type
2. A function _____ tells the compiler about a function name and how to call the function.
- a. Return Type
 - b. declaration
 - c. main()
 - d. None of them.

3. What will be the output of the following C++ code?

```
1. #include <iostream>
2. using namespace std;
3. void mani()
4. void mani()
5. {
6. cout<<"hai";
7. }
8. int main()
9. {
10.     mani();
11. return 0;
12. }
```

a. hai

b haihai

c. compile time error

d. None of them

4. What will be the output of the following C++ code?

```
1. #include <iostream>
2. using namespace std;
3. void fun(int x, int y)
4. {
5.     x =20;
6.     y =10;
7. }
8. int main()
9. {
10. int x =10;
11.     fun(x, x);
12. cout<< x;
13. return 0;
14. }
```

a. 10

b. 20

c. 40

d. 50

COMPUTER SCIENCE WEEK-11

FUNCTIONS

a. Day 1- Passing Arguments and Returning Values

<u>Unit</u>	<u>Topic</u>	<u>Activities/Worksheet</u>
<u>Unit .6</u>	<u>FUNCTIONS</u> <u>6.1 Functions</u> <ul style="list-style-type: none">• <u>Local and Global Functions</u> <u>6.2 Passing Arguments and Returning Values</u> <ul style="list-style-type: none">• <u>Passing Arguments.</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.2&v=cs-function-26• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.2&v=cs-function-27• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.2&v=cs-function-28	<u>Work Sheets</u> Run program of Function https://www.tutorialspoint.com/compile_cpp_online.php

b. Day 1 Homework

Answer these questions to review.

Click on the link below to answer

<https://www.w3schools.com/quiztest/quiztest.asp?qtest=CPP>

c. Day 2- Passing Arguments and Returning Values

<u>Unit</u>	<u>Topic</u>	<u>Activities/Worksheet</u>
Unit .6	<p><u>FUNCTIONS</u></p> <p><u>6.2 Passing Arguments and Returning Values</u></p> <ul style="list-style-type: none"> • <u>Default Arguments</u> • <u>Return Statement..</u> • https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.2&v=cs-function-29 • https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.2&v=cs-function-30 	<p>Run program of Function</p> <p>https://www.tutorialspoint.com/compile_cpp_online.php</p>

d. Day 1 Homework

Practice Functions examples

Click on the link below to answer

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_functions_param_multi

e. Day 3- Function Overloading

<u>Unit</u>	<u>Topic</u>	<u>Activities/Worksheet</u>
Unit.6	<u>FUNCTIONS</u> 6.3 Function Overloading <ul style="list-style-type: none">• <u>Advantages of Function Overloading</u>• <u>Use of Function Overloading</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.3&v=cs-function-34• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-6.3&v=cs-function-35	Practice Overloading Functions examples https://www.tutorialspoint.com/compile_cpp_online.php

f. Day 3 HomeWork

Execute following program:

```
#include <iostream>

using namespace std;

int plusFuncInt(int x, int y) {
    return x + y;
}

double plusFuncDouble(double x, double y) {
    return x + y;
}

int main() {
    int myNum1 = plusFuncInt(8, 5);
    double myNum2 = plusFuncDouble(4.3, 6.26);
    cout << "Int: " << myNum1 << "\n";
    cout << "Double: " << myNum2;
    return 0;
}
```

Click on the link below to

answer https://www.w3schools.com/cpp/showcpp.asp?filename=demo_function_overloading

WEEK WISE ASSESSMENT

Write Short Answers

- Define inline function with the help of examples.
 - Define passing arguments as variable
 - Define local and global functions with the help of examples.
- ..
- Write output of the following program:

```
1. #include <iostream>
2. using namespace std;
3. void copy (int& a, int& b, int& c)
4. {
5.     a *=2;
6.     b *=2;
7.     c *=2;
8. }
9. int main ()
10. {
11. int x =1, y =3, z =7;
12.     copy (x, y, z);
13. cout<<"x ="<< x <<" , y ="<< y <<" , z ="<< z;
14. return0;
15. }
```

- What will be the output of the following C++ code?

```
• #include<iostream>
• using namespace std;
•
• int fun(int x =0, int y =0, int z)
• {
• return(x + y + z);}
•
• int main()
• {
• cout<< fun(10);
• return0;
• }
```

○

COMPUTER SCIENCE WEEK-12

POINTERS

a. Day 1- Pointer Variables and memory addresses

<u>Unit</u>	<u>Topic</u>	<u>Activities/Worksheet</u>
<u>Unit 7</u>	<u>POINTERS</u> <u>7.1 POINTERS</u> <ul style="list-style-type: none">• <u>Pointer Variable.</u>• <u>Memory Addresses.</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-7.1&v=cs-pointer-1• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-7.1&v=cs-pointer-2	https://study.com/academy/practice/quiz-worksheet-using-pointers-in-c.html

b. Day 1 Homework

Develop these Programs to Practice.
Click on the link below to solve

<https://www.codercrunch.com/quiz/970373692/c-pointers-quiz>

c. Day 2-Reference Operator and Dereference Operator

<u>Unit</u>	<u>Topic</u>	<u>Activities/Worksheet</u>
<u>Unit .7</u>	<u>POINTERS</u> <u>7.1 POINTERS</u> <ul style="list-style-type: none">• <u>Reference Operator (&)</u>• <u>Dereference Operator (*) .</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-7.1&v=cs-pointer-3• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-7.1&v=cs-pointer-4	<u>Practice Programs</u> https://www.tutorialspoint.com/compile_cpp_online.php

d. Day 2 Homework

Practice examples

Click on the link below to answer

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_pointer_dereference

e. Day 3 – Declaring Variables of Pointer

<u>Unit</u>	<u>Topic</u>	<u>Activities/Worksheet</u>
Unit 3	<u>POINTERS</u> <u>7.1 POINTERS</u> <ul style="list-style-type: none">• <u>Declaring Variables of Pointer Types.</u>• <u>Pointer Initialization..</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-7.1&v=cs-pointer-5• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-7.1&v=cs-pointer-7/8	Practice Programs https://www.tutorialspoint.com/compile_cpp_online.p hp

f. Day 3 –Home Work

Practice examples.

Click on the link below to solve

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_pointer_change

WEEK WISE ASSESSMENT

Write Short Answers

- Define pointer with the help of examples.
- How to declare pointer in C++?
- Define reference and dereference pointer with the help of examples.
- Write output of the following program:

```
● #include <iostream>
● using namespace std;
● int main()
● {
● char arr[20];
● int i;
● for(i =0; i <10; i++)
● *(arr + i)=65+ i;
● *(arr + i)='\0';
● cout<< arr;
● return(0);
● }
```

○

Solve MCQ'S

1. The operator used for dereferencing or indirection is _____ .

a. *

b. &

c. <<

d. None of them

2. Which of the following is illegal?

a. `int *ip;`

b. `string s, *sp = 0;`

c. `int i; double* dp = &i;`

d. None of them

3. What will happen in the following C++ code snippet?

1. `int a =100, b =200;`

2. `int*p =&a, *q =&b;`

3. `p = q;`

a. b is assigned to a

b. p now points to b

c. a is assigned to b

d. None of them

4. What will be the output of the following C++ code?

1. `#include <iostream>`

2. `usingnamespace std;`

3. `int main()`

4. `{`

5. `int a =5, b =10, c =15;`

6. `int*arr[]={&a, &b, &c};`

7. `cout<< arr[1];`

8. `return0;`

9. `}`

a. 5

b. 10

c. 15

d. it will return some random number

○

COMPUTER SCIENCE WEEK-13

OBJECTS AND CLASSES

a. Day 1- Classes and Objects

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
Unit 8	<u>OBJECTS AND CLASSES.</u> 8.1 Classes and Objects <ul style="list-style-type: none">• <u>Class and Object</u>• <u>Member of a Class.</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-8.1&v=cs-objects-3• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-8.1&v=cs-objects-2	https://www.tutorialspoint.com/cplusplus/cpp_classes_objects.htm

b. Day 1 Homework

Perform this activity to learn.

Click on the link below to solve

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_object_attr

c. Day 2- Access Specifiers

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
Unit .8	<u>OBJECTS AND CLASSES.</u> 8.1 Classes and Objects <ul style="list-style-type: none">• <u>Access Specifiers</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-8.1&v=cs-objects-5• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-8.1&v=cs-objects-6	https://www.tutorialspoint.com/cplusplus/cpp_classes_objects.htm

d. Day 2 Homework

Perform this activity to learn.

- Click on the link below

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_object_attr

d. Day 3- Data Hiding

<u>Unit</u>	<u>Topic</u>	<u>Activity/worksheet</u>
Unit .8	<u>OBJECTS AND CLASSES.</u> <u>8.1 Classes and Objects</u> <ul style="list-style-type: none">• <u>Data Hiding.</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-8.1&v=cs-objects-7	https://www.tutorialspoint.com/cplusplus/cpp_data_encapsulation.htm

Perform this activity to learn.
Click on the link below

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_encapsulation

WEEK WISE ASSESSMENT

Write Short Answers

- Define access specifier-- with the help of examples.
- Define concept of object and class in programming language.

Solve MCQ's

1. What does a class in C++ holds?
a. data
b. function
c. both
d. None of them
2. How many specifiers are present in access specifier in class?
a. 3
b. 1
c. 6
d. None of them
3. The data members and functions of a class in C++ are by default _____
a. public
b. private
c. protected
d. nested loop.
4. What will be the output of the following C++ code?

```
1. #include <iostream>
2. using namespace std;
3. class Box
4. {
5. public:
6. double length;
7. double breadth;
8. double height;
9. };
10. int main()
11. {
12.     Box Box1;
13.     double volume;
14.     Box1.height=5;
15.     Box1.length=6;
16.     Box1.breadth=7.1;
17.     volume = Box1.height* Box1.length* Box1.breadth;
18.     cout<<"Volume of Box1 : "<< volume <<endl;
19.     return 0;
20. }
```

- a. 210
b. 213
c. 215
d. 217

Self Study

OBJECTS AND CLASSES

a. Day 1- Classes and Objects

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
Unit 8	<u>OBJECTS AND CLASSES.</u> <u>8.1 Classes and Objects</u> <ul style="list-style-type: none">• <u>Constructor and Destructor</u>• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-8.1&v=cs-objects-8• https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-8.1&v=cs-objects-12	https://www.tutorialspoint.com/cplusplus/cpp_classes_objects.htm

b. Day 1 Homework

Perform this activity to learn.

Click on the link below to solve

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_constructor

c. Day 2- Access Specifiers

<u>Unit</u>	<u>Topic</u>	<u>Activity/Worksheet</u>
Unit .8	<u>OBJECTS AND CLASSES.</u> <u>8.1 Classes and Objects</u> <ul style="list-style-type: none"> • <u>Declaration of objects for accessing members of a class</u> • https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-8.1&v=cs-objects-10 • https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-8.1&v=cs-objects-11 	https://www.tutorialspoint.com/cplusplus/cpp_classes_objects.htm

d. Day 2 Homework

Perform this activity to learn.

Click on the link below

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_object_real

e. Day 3- Data Hiding

<u>Unit</u>	<u>Topic</u>	<u>Activity/worksheet</u>
Unit .8	<u>OBJECTS AND CLASSES.</u> <u>8.1 Classes and Objects</u> <ul style="list-style-type: none"> • <u>Inheritance and Polymorphism</u> • https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-8.1&v=cs-objects-13 • https://sabaq.pk/video-page.php?sid=federal-computer%20science-12th-8.1&v=cs-objects-15 	https://www.tutorialspoint.com/cplusplus/cpp_data_encapsulation.htm

f. Day 3 Homework

Perform this activity to learn.

Click on the link below

https://www.w3schools.com/cpp/showcpp.asp?filename=demo_inheritance

WEEK WISE ASSESSMENT

Write Short Answers

- Define constructor and destructor with the help of examples.
- What is overloading in programming language.
- Define concept of polymorphism with the help of examples.

Solve MCQ's

1. What is the role of a constructor in classes?

- a. To modify the data whenever required
- b. To destroy an object
- c. To initialize the data members of an object when it is created
- d. None of them

2. How many types of constructor are there in C++?

- a. 3
- b. 1
- c. 2
- d. None of them

3. When a base class is privately inherited by the derived class, then_____ .

a. Protected members of the base class become private members of derived class

b. public members of the base class become private members of derived class

c. both a and b

d. only b

4. class X, class Y and class Z are derived from class BASE. This is _____ inheritance.

a. Multiple

b. Multilevel

c. Hierarchical

d. Single

- Write output of the following program:

```
#include <iostream>
#include <string>
using namespace std;
class A{
    int a;
public:
    A(){
        cout<<"A's constructor called";
    }
};
class B{
    static A a;
public:
    B(){
        cout<<"B's constructor called";
    }
    static A get(){
        return a;
    }
};
A B::a;
int main(int argc, charconst*argv[])
{
    B b;
    A a1 = b.get();
    A a2 = b.get();
    A a3 = b.get();
```

○

موسم گرما کی تعطیلات کا کام
برائے نصابی سال ۲۰۲۰
بارہویں جماعت

کینٹ پبلک ایجوکیشن سسٹم

تدریس اردو
نصاب برائے میعاد اول تعلیمی سال ۲۰۲۰
بارہویں جماعت

نمبر شمار	تدریسی مہینہ	تدریسی ہفتہ	سبق	عنوان
۱	جولائی ۲۰۲۰	آٹھواں ہفتہ	شہرت عام بقائے دوام نظم بڑھے چلو	اصنافِ ادب منظوم ادب
۲	اگست ۲۰۲۰	نواں ہفتہ	ایک وصیت کی تعمیل نظم مناظر سحر	اصنافِ ادب منظوم ادب
۳	اگست ۲۰۲۰	دسواں ہفتہ	طائر لاہوتی نظم شکست کی آواز	اصنافِ ادب منظوم ادب
۴	اگست ۲۰۲۰	گیارہواں ہفتہ	محسن محلہ نظم ستارے	اصنافِ ادب منظوم ادب
۵	اگست و ستمبر ۲۰۲۰	بارہواں ہفتہ	کنڈکٹر نظم نفیر عمل	اصنافِ ادب منظوم ادب
۶	ستمبر ۲۰۲۰	تیرواں ہفتہ	غزل علامہ محمد اقبال	منظوم ادب
۷	ستمبر ۲۰۲۰	چودہواں ہفتہ	مرید پور کا پیر مصنف: احمد شاہ پطرس بخاری	اصنافِ ادب

ہفتہ وار سرگرمیاں فہرست

نمبر شمار	تدریسی ہفتہ	سبق	سرگرمی
۱	آٹھواں ہفتہ	شہرت عام بقائے دوام	درج ذیل الفاظ کو الف بائی ترتیب سے لکھیں اور معنی بھی واضح کریں جاہ و جلال، گروہ کثیر، اولوالعزم، قیل، وقال، بلا تامل، عالی وقار
۲	نواں ہفتہ	ایک وصیت کی تعمیل نظم مناظر سحر	اس سبق سے پانچ ایسے جملے لکھیں جن میں امدادی افعال استعمال ہوئے ہوں۔ مندرجہ ذیل الفاظ کے ایک سے زیادہ معنی لکھیے: خم، کرم، کل، محقق، منتظر نظم کی تلمیحات کی نشاندہی کریں۔ انوار خدا سے کیا مراد ہے۔
۳	دسواں ہفتہ	طائر لاپوتی	درج ذیل جملوں کو قواعد کے مطابق درست کریں 1- نیز شاعر کا نام بھی لکھیں۔ 2- ہمارا گھر شہر میں واقع ہے۔ 3- بزرگوں کی بات غور سے سنو۔ 4- تم کب واپس لوٹا گئے۔ 5- میں آپ کا بے حد مشکور ہوں۔ اعراب لگائیں نظم و ضبط، مشاعرہ، مقالات، تلخ کلامی، جاذبیت
۴	گیارہواں ہفتہ	نظم شکست کی آواز	لکیر کا فقیر ہونا محاورہ ہے محاورہ کی تعریف کریں اور کوئی سے پانچ محاورات لکھیں۔ اردو میں درج ذیل افعال بطور معاون افعال استعمال کیے جاتے ہیں آپ ان کی مدد سے دو دو جملے بنائیے جن میں امدادی افعال استعمال ہوں دینا، لینا، انا، ڈالنا، جانا، پڑنا، اٹھنا درج ذیل جملوں میں مناسب مقامات پر رموز و اوقاف لگائیں 1 اسے جب دیکھو ہوا کے گھوڑے پر سوار ہو تا ہے 2 اس مضمون کے اہم نکات یہ ہیں 3 لڑکے تم یہاں کیا کر رہے ہو 4 رسول صلی اللہ علیہ وآلہ وسلم نے فرمایا، سب انسان برابر ہیں۔ 5 دوست ہوتا نہیں ہر ہاتھ ملانے والا
۵	بارہواں ہفتہ	نظم ستارے کنڈکٹر	اس نظم سے مرکب اضافی اور مرکب عطفی الگ الگ کر کے لکھیں۔ استدراکی جملوں کی تمام اقسام اور دو دو مثالیں لکھیں درج ذیل جملوں میں معاون افعال کی نشاندہی کریں 1 ابرار معاشرے میں اپنا وقار کھو بیٹھا۔ 2 ہجوم میں میرا تو دم گھٹتے لگا۔ 3 کاش تم میچ جیت سکتے۔

4. تمام طلبہ یک زبان بول اٹھے۔ 5. تھانیدار ملزم پر برس پڑا۔			
مندرجہ ذیل الفاظ کے ایک سے زیادہ معنی لکھیے: شامی تقدیر، جور فلک، محروم تجلی، چارہ درد، جنس گراں مایہ، مکرو ریا	نظم نفیر عمل		
اس غزل کے کن اشعار میں صنعت تضاد پائی جاتی ہے الگ کیجئے۔ الفاظ کے معانی لکھیے نکتہ چیں۔، بد بیضا، باریک بین۔، موج نفس، محمل نشیں۔، ارادت	غزل علامہ محمد اقبال	تیرواں ہفتہ	۶
دوسری غزل کے قافیوں کی نشاندہی کیجئے			
اس مضمون سے کم از کم پانچ وصلی جملے تلاش کریں۔ اس مضمون سے کم از کم پانچ ایسے جملے لکھیں جن میں (کم) کا استعمال ہو۔ اس مضمون سے کم از کم پانچ ایسے جملے لکھیں جن میں امدادی افعال ہوں۔	مرید پور کا پیر	چودھواں ہفتہ	۷

ہفتہ وار تفویض کار

نمبر شمار	تدریسی ہفتہ	سبق	تفویض کار
۱	آٹھواں ہفتہ	شہرت عام بقائے دوام۔ نظم بڑھے چلو	درج ذیل جملے کن بادشاہان یا مشاہیر کے بارے میں ہیں؟ جس کے کپڑوں میں لہو کی بو آئے وہ قصاب ہے۔ اس سرے سے اس سرے تک ایک گردش اور چلے گی۔ رنگ زرد تھا اور شرم سے سر جھکا تھا۔ قیافہ روشن اور چہرہ فرحت روحانی سے شگفتہ نظر آتا ہے۔ ہندوستان کے بہت سے گراں بہا زیور اس کے ہاتھ میں تھے۔ نظم کا خلاصہ شاعر کے تعارف کے ساتھ لکھیے۔
۲	نواں ہفتہ	ایک وصیت کی تعمیل	مندرجہ ذیل سوالات کے جواب دیجیے۔ مولوی صاحب کا حلیہ اپنے الفاظ میں بیان کریں۔ حیدرآباد کالج کے سالانہ جلسے میں کیا غلط فہمی پیدا ہوئی؟ مولوی صاحب نے اصطلاحات وضع کرنے کے لیے کن اصولوں کا سہارا لیا؟ مولوی صاحب سے فرحت اللہ بیگ کی ملاقات کب اور کیسے ہوئی؟
		نظم مناظر سحر	بند نمبر 3 میں کن اشیاء کو۔ عید سحر سے تعبیر کیا گیا ہے؟
۳	دسواں ہفتہ	طائر لاہوتی	سوالوں کے جواب دیں۔ عبد الودود فمر کون تھے؟ دائرہ ادبیہ میں کون کون شامل تھے؟
		نظم شکست کی آواز	نظم کا مرکزی خیال لکھیے۔
۴	گیارہواں ہفتہ	محسن محلہ	افسانہ محسن محلہ کا خلاصہ لکھیے
		نظم ستارے	نظم کا خلاصہ لکھیے
۵	بارہواں ہفتہ	کنڈکٹر	سوالوں کے جواب دیجیے لارڈ ماؤنٹ بیٹن کون تھے؟ لالو کے بارے میں ماسٹر صاحب کیا کہتے تھے؟
		نظم نفیر عمل	نظم کا خلاصہ اپنے الفاظ میں بیان کیجئے۔

مندرجہ ذیل اشعار کی تشریح کیجیئے جنہیں میں ڈھونڈتا تھا آسمانوں میں زمینوں میں وہ نکلے میرے ظلمت خانہ دل کے مکینوں میں مہینے وصل کے گھڑیوں کی صورت اڑے جاتے ہیں مگر گھڑیاں جدائی کی گزرتی ہیں مہینوں میں خموش اے دل بھری محفل میں چلانا نہیں اچھا ادب۔ پہلا قرینہ ہے محبت کے قرینوں میں	غزل علامہ محمد اقبال	تیرواں ہفتہ	۶
سبق کا خلاصہ اپنے الفاظ میں لکھیئے۔	مرید پور کا پیر مصنف: احمد شاہ پطرس بخاری	چودھواں ہفتہ	۷

مشقی پارچہ مشقی پارچہ نمبر ۱

سبق کا عنوان: شہرت عام بقائے دوام۔

مصنف: محمد حسین آزاد

درج ذیل الفاظ پر اعراب لگائیے:

صف شکن، کفن، رزم، دشت، بحر، دلاور، افتخار، بہادر

مندرجہ ذیل اقتباس کی سیاق و سباق کے حوالے سے تشریح کیجیئے۔

بقائے دوام دو طرح کی ہے۔ ایک تو وہی جس طرح روح فی الحقیقت بعد مرنے کے رہ جائے گی کہ اس کے لیے فنا نہیں، دوسری عالم یادگار کی بقا، جس کی بدولت لوگ نام کی عمر سے جیتے ہیں اور شہرت دوام کی عمر پاتے ہیں۔

<https://youtu.be/unYSKT4rlrQ>

<https://youtu.be/KGpoW-6Xryc>

نظم کا عنوان: بڑھے چلو

شاعر کا نام: اختر شیرانی

مصدق ترجیح بند سے کیا مراد ہے؟

<https://youtu.be/oZTS8GD85ec>

<https://youtu.be/LZz3fAx3gOs>

<https://youtu.be/IXyA9OSSrMo>

<https://youtu.be/9sxygchsres>

مشقی پارچہ نمبر ۲

سبق کا عنوان: ایک وصیت کی تعمیل

مصنف کا نام: مرزا فرحت اللہ بیگ

مناسب الفاظ سے خالی جگہ پر کیجئے۔

1. صف سے آگے بڑھا اور تیر۔۔۔۔۔ کا شکار ہوا
2. ایک بڑے میاں بڑے بڑے۔۔۔۔۔ بھرتے میری طرف آ رہے ہیں۔
3. ان کی زود۔۔۔۔۔ کی سب تعریف کرتے تھے
4. اہل کمال ہمیشہ۔۔۔۔۔ حال رہے ہیں۔
5. میں نے اس۔۔۔۔۔ کی دلی کا نقشہ کھینچا۔

<https://youtu.be/f5UNgzUhPaq>

<https://youtu.be/IWVeZ9BCZ3Q>

<https://youtu.be/NtZFKBpNCyE>

نظم مناظر سحر

نظم مناظر سحر کا مرکزی خیال لکھیے۔

<https://youtu.be/p1wLAYv7Jgw>

https://youtu.be/gxZ14iOfT_Q

مشقی پارچہ نمبر ۳

سبق کا عنوان: طائر لاہوتی

مصنف کا نام: فارغ بخاری

سبق طائر لاہوتی۔ سے محاورات کی نشاندہی کریں۔

درج ذیل جملوں میں مناسب مقامات پر رموز و اوقاف لگائیں۔

1. عمران خان نے جو پاکستان کا نامور فرزند ہے کینسر ہسپتال بنوایا۔
 2. جھیل سیف الملوک تک جو سارا پہاڑی علاقہ ہے سفر آسان نہیں۔
 3. سنو کیا تم میری مدد کرو گے۔
 4. ماشاء اللہ کتنی ذہین بچی ہے۔
 5. بچے بولے ماموں جان آگئے۔
- نظم: شکست کی آواز کی تشریح کریں۔

درج ذیل شعر کی تشریح کریں اور شاعر کا نام بھی لکھیے:

مگر ہاں باوجود اس کے مرے دل میں جو الہا ہے
امنگوں نے میری ہستی کو اک الجھن میں ڈالا ہے

مشقی پارچہ نمبر ۴

سبق کا عنوان : محسن محلہ

خالی جگہ پر کیجیئے:

- 1- ان کو زمانے کے ساتھ چلنے کا _____ نہیں آتا
- 2- خوف کے مارے اس کی _____ بندھ گئی
- 3- وہ سردی کے موسم میں باہر بیٹھا دھوپ _____ رہا تھا۔
- 4- شیخی _____ اچھی بات نہیں
- 5- مالک مکان نے کرایہ دار کو سخت _____ میں ڈانٹا

جملے درست کیجیئے

- 1 ہمارا وطن دن بدن ترقی کر رہا ہے۔
- 2- وہ حیرانگی سے میری طرف دیکھ رہا تھا۔
- 3- میرا بڑا دل کرتا ہے کہ حج پر جاؤں۔
- 4- میں آپ سے ایک ضروری بات کہنے آیا ہوں۔
- 5- اس کی چیخ و پکار سن کر لوگ مدد کے لیے دوڑے۔

<https://youtu.be/p1wLAYv7Jgw>

<https://youtu.be/1W6illuizrk>

<https://youtu.be/86VMyzL4vN0>

<https://youtu.be/zT1t7gS2gZU>

نظم : ستارے

شاعر کا نام:- ن-م راشد

گم گشتہ جنت سے کیا مراد ہے؟

<https://youtu.be/Bn5bhCGWQZM>

<https://youtu.be/Rdbt-hVi0Uc>

<https://youtu.be/jO5LjZBbxwg>

مشقی پارچہ نمبر ۵

سبق کا عنوان: کنڈکٹر

مصنف کا نام: الطاف فاطمہ

درج ذیل جملوں کی وضاحت کریں

- 1- اب ہم پلاسی اور سرنگا پٹم کے میدانوں میں اپنی شکست کے اسباب ڈھونڈ رہے ہیں۔
- 2- اب ہم کس کس کو روکیں گے؟ یہ تو وقت کی آواز ہے، زبان خلق ہے۔
- 3- کسے خبر تھی کہ وہ انتظار کر رہا تھا۔

<https://youtu.be/3x2N0T1VK-4>

<https://youtu.be/BtQebjrHn1U>

نظم: نفیر عمل کے شاعر کا نام اور مرکزی خیال تحریر کریں۔

<https://youtu.be/XejwRyQSx3E>

<https://youtu.be/qgIMpzn16Qk>

<https://youtu.be/0DoXjR5MXxs>

مشقی پارچہ نمبر ۶

غزل: علامہ محمد اقبال

اقبال کے کلام کی نمایاں خصوصیات تحریر کریں۔

<https://youtu.be/0DoXjR5MXxs>

https://youtu.be/M1Y_AbohAkk

مشقی پارچہ نمبر ۷

سبق کا عنوان: مرید پور کا پیر

مصنف: احمد شاہ پطرس بخاری

کس تقریب یا جلسے کی روداد لکھیں

<https://youtu.be/2SNXymQsWb4>

<https://youtu.be/PyWmSwZ67Vk>

<https://youtu.be/jx0zxWXhwll>

SUMMER VACATION HOMWORK 2020
CLASS: XII (FEDERAL BOARD)
GENERAL KNOWLEDGE

GENERAL KNOWLEDGE

HISTORY AND GEOGRAPHY

WEEK 1

HISTORY

Important Link: <https://www.slideshare.net/Shefaldrees/the-constitution-of-pakistan>

1. Who was the Prime Minister of Pakistan during the enforcement of the first constitution?
 - a) Khwaja Nazimuddin
 - b) Mohammad Ali Bogra
 - c) Ibrahim Ismail Chundrigar
 - d) Choudhry Mohammad Ali

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. What was the other name of the Mohammad Ali Bogra formula?
 - a) Constitutional Formula
 - b) New law of Pakistan
 - c) Pakistan Report
 - d) Third report.

4. What document was firstly drafted to give pace to constitution making process?
 - a) Prime Minister
 - b) Foreign Minister
 - c) Law Minister
 - d) Parliament Minister

5. When did the constituent assembly pass the Objective Resolution?
 - a) 9th June 1949
 - b) 14th February 1949
 - c) 15th August 1949
 - d) 12th March 1949

GEOGRAPHY

Important link: <https://www.slideshare.net/MahamArooj/geography-of-pakistan-53246563>

1. Which Indian states share boundaries with Pakistan?
 - a) Jammu and Kashmir
 - b) Rajasthan
 - c) Gujrat
 - d) All of the above

2. India and Pakistan border is also known as
 - a) Zero-point border
 - b) International border
 - c) Coastal border
 - d) None of the above

3. The total length of the India Pakistan border is
 - a) 3000 Km
 - b) 3130 Km
 - c) 3223 Km
 - d) 3323 Km

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

5. What is the length of the Jammu and Kashmir border India shares with Pakistan?
 - a) 1222 Km
 - b) 1234 Km
 - c) 1239 Km
 - d) 1240 Km

WEEK 2

HISTORY

Important Link: <https://www.slideshare.net/HarisAsghar/languages-of-pakistan-86469460>

1. Urdu was declared national language of Pakistan in:
 - a) April 1950
 - b) April 1955
 - c) April 1954
 - d) April 1952

2. In which province maximum languages are spoken?
 - a) Sindh
 - b) Punjab
 - c) Balochistan
 - d) Khyber PK

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

4. Urdu has been taken from the following
 - a) Persian
 - b) Arabic
 - c) Turkish
 - d) None of these

5. The word Urdu means
 - a) Believers
 - b) A group of students
 - c) Army
 - d) None of these

GEOGRAPHY

Important link: https://www.ancient.eu/Indus_Valley_Civilization/

1. The main occupation of the Indus valley civilization was:
 - a) Agriculture
 - b) Cattle rearing
 - c) Hunting
 - d) None of these

2. Moenjodaro means:
 - a) Civilized city
 - b) Mound of Dead
 - c) Garden
 - d) None of these

3. Indus civilization is also known as:
 - a) Harrapan civilization
 - b) Kot Diji civilization
 - c) Taxila Civilization
 - d) None of these

4. The other civilization flourished at Harrappa and other sites as early as
 - a) 2500 BC
 - b) 2400 BC
 - c) 326 BC
 - d) None of these

5. Alexander the Great arrived in Taxila in
 - a) 326 BC
 - b) 314 BC
 - c) 300 BC
 - d) None of these

WEEK 3

HISTORY

Important Link: <https://historypak.com/muhammad-bin-qasim/>

1. In which year Muhammad Bin Qasim attacked Sindh
 - a) 700
 - b) 710
 - c) 712
 - d) None of these

1. Al Beruni came to India along with
 - a) Mahmud of Ghazni
 - b) Muhammad Bin Qasim
 - c) Muhammad Ghuri
 - d) None of these

2. The hindu ruler of the Subcontinent was
 - a) Raja Pirthavi Raj
 - b) Raja Dahir
 - c) Raja Jay Pal
 - d) None of these

3. Who destroyed the temple of Somnat?
 - a) Mahmood Ghaznavi
 - b) Gahuri
 - c) Babar
 - d) None of these

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

GEOGRAPHY

Important links: <https://www.slideshare.net/mwaseemnoonari/geography-of-pakistan-56467316>

1. In Pakistan Monsoon season lasts from:
 - a) April to May
 - b) May to June
 - c) June to December
 - d) July to September

2. In terms of temperature the hottest place in Pakistan is:
 - a) Multan
 - b) Jacobabad
 - c) Sibi
 - d) Hyderabad

3. The place in Pakistan which has the absolute minimum temperature of - 16°C is
 - a) Skardu
 - b) Muree
 - c) Drosh
 - d) Quetta

4. In terms of temperature of the coolest place in Pakistan is:
 - a) Murree
 - b) Quetta
 - c) Skardu
 - d) Drosh

5. Which period falls in the monsoon season in Pakistan:
 - a) January to April
 - b) April to June
 - c) July to September
 - d) October to December

WEEK 4

HISTORY

Important link: <https://www.slideshare.net/waqarbutt74/pakistan-movement>

1. The step which ignited the war of independence was
 - a) Doctrine of Lapse
 - b) Ridiculing Muslim culture
 - c) Introduction of greased cartridges
 - d) Joblessness of soldiers

2. In the beginning of war, the 80 soldiers who disobeyed Co Smith to use greased cartridges belonged to:
 - a) Lucknow
 - b) Meerat
 - c) Delhi
 - d) Bihar

3. The British General who recaptured Delhi from Bakht Khan was
 - a) R. Brown
 - b) Sir Macauley
 - c) Hudson
 - d) Sir John Shore

4. After the war of Independence, the British Government assumed control of India through:
 - a) Indian Council Act, 1862
 - b) Queens proclamation of 1858
 - c) Queens Order, 1857
 - d) East India Company Order 1858

5. In Jhansi, the Muslim revolutionaries were led by:
 - a) Bahadur Shah Zafar
 - b) Rani Lakshmi Bai
 - c) Khan Bahadur Khan
 - d) Nana Sahib

GEOGRAPHY

Important link: <https://www.slideshare.net/7509009/demography-and-population-of-pakistan>

1. Give the location of Gomal Zam Dam
 - a) Punjab
 - b) Sindh
 - c) Khyber Pakhtunkhwa
 - d) Balochistan

2. What was the contribution of agriculture sector to GDP of Pakistan in 2011-12
 - a) 17 percent
 - b) 21 percent
 - c) 25 percent
 - d) 29 percent

3. What was the growth rate of forestry sector in year 2011-2012?
 - a) 0.95%
 - b) 1.4%
 - c) 2.2%
 - d) 2.9%

4. Which of the following crops belongs to the category of minor crops?
 - a) Wheat
 - b) Sugarcane
 - c) Masoor
 - d) Cotton

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

WEEK 5

HISTORY

Important link: <https://www.youtube.com/watch?v=bR3MKuq5rVw>

1. The first Capital of Independent Pakistan was:
 - a) Karachi
 - b) Faisalabad
 - c) Islamabad
 - d) Lahore

2. Who drew up the borders for newly independent Pakistan?
 - a) Lord Mountbatten
 - b) Sir Cyril Radcliffe
 - c) Clement Atlee
 - d) None of the above

3. Which state of India shares borders of length 425 Km with Pakistan?
 - a) Gujraat
 - b) Rajasthan
 - c) Punjab
 - d) Jammu and Kashmir

4. Which state of India share longest border with Pakistan?
 - a) Jammu and Kashmir
 - b) Rajasthan
 - c) Gujarat
 - d) Punjab

5. When were the borders of Pakistan drawn?
 - a) 14 August 1947
 - b) 15 August 1947
 - c) 16 August 1947
 - d) 17 August 1947

GEOGRAPHY

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

Label the map of Pakistan with its Provinces, neighboring countries, and Major Cities



WEEK 6

HISTORY

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

1. In which year did Pakistan win the cricket world cup?
 - a) 1992
 - b) 1975
 - c) 1996
 - d) 1987
2. When Musharraf took over the government of Nawaz Shariff what designation did he take?
 - a) Dictator
 - b) Consul
 - c) Prime Minister
 - d) Chief Executive
3. When did Pakistan win Olympic gold medal in Hockey for the first time?
 - a) 1948
 - b) 1952
 - c) 1960
 - d) 1964
4. Who succeeded Late Gen.Zia ul Haque as President of Pakistan?
 - a) Rafiq Tarar
 - b) Farooq Ahmed Khan Leghari
 - c) Ghulam Ishaq Khan
 - d) Benazir Bhutto
5. Who designed Pakistan's national flag?
 - a) Fatima Jinnah
 - b) Ammer-ud-din Khidwai
 - c) Wali Khan
 - d) Tikka Khan

GEOGRAPHY

Important link: <https://www.slideshare.net/SalmanSindhoo1/dams-in-pakistan>

1. The largest dam of Pakistan is

2. Where is Mangla Dam located?

3. What is the Emergency water reservoir capacity of Pakistan?

4. Mangla Dam is built on what river?

5. Where is Darawat Dam located?



ENGLISH WEEK 1

Read the following passage and answer the questions below

"Did you see that?" Joe said to his friend Bill. "You're a great shooter!" Bill caught the basketball and bounced it before throwing it again. The ball flew into the net. "Bill, you never miss!" Joe said admiringly. "Unless I'm in a real game," Bill complained. "Then I miss all the time." Joe knew that Bill was right. Bill performed much better when he was having fun with Joe in the school yard than he did when he was playing for the school team in front of a large crowd. "Maybe you just need to practice more," Joe suggested. "But I practice all the time with you!" Bill objected. He shook his head. "I just can't play well when people are watching me." "You play well when I'm watching," Joe pointed out. "That's because I've known you since we were five years old," Bill said with a smile. "I'm just not comfortable playing when other people are around." Joe nodded and understood, but he also had an idea. The next day Joe and Bill met in the school yard again to practice. After a few minutes, Joe excused himself. "Practice without me," Joe said to his friend. "I'll be back in a minute." Joe hurried through the school building, gathering whomever he could find—two students, a math teacher, two secretaries, and a janitor. When Joe explained why he needed them, everyone was happy to help. Joe reminded the group to stay quiet as they all went toward the school's basketball court. As Joe had hoped, Bill was still practicing basketball. He made five baskets in a row without noticing the silent people standing behind him. "Hey, Bill!" Joe called out finally. Bill turned. A look of surprise came over his face. "I just wanted to show you that you could play well with people watching you," Joe said. "Now you'll have nothing to worry about for the next game!"

1. What would be the best title for the story?
 - a) Joe joins the Team
 - b) Practice makes perfect
 - c) Bill wins the big game
 - d) Bill's basketball problem
2. The word **performed** is closest in meaning to:
 - a) acted
 - b) played
 - c) moved
 - d) changed

○

-
3. Why is Bill upset?
 - a) He plays better in practice than he does during games
 - b) The school yard is not a good place to practice
 - c) Joe watches him too closely when he plays
 - d) His team loses too many games

 4. Why does Bill play well when Joe is watching him?
 - a) He is comfortable with Joe.
 - b) Joe tells him how to play better.
 - c) He does not know that Joe is there.
 - d) He wants to prove to Joe that he is a good player.

 5. Why does Joe decide to gather a group of people?
 - a) He wants more players for his team
 - b) He wants to help Bill feel less nervous
 - c) He wants to show them his talent.
 - d) He wants more people to see the next game.

 6. At the end of the story, all of the following people watch Bill practice EXCEPT
 - a) Joe
 - b) a janitor
 - c) a math teacher
 - d) the basketball coach.

 7. Why does the group have to be quiet when they go to the basketball court?
 - a) Because Joe is telling Bill what to do
 - b) Because they do not want Bill to know they were there
 - c) Because Bill likes to practice alone
 - d) Because the group needs to listen to Joe's instructions

ENGLISH WEEK 2

Fill the space using the word in the bracket as adverb or adjective

1. He _____ reads a book. (quick)
2. Mandy is a _____ girl. (pretty)
3. The class is _____ loud today. (terrible)
4. Max is a _____ singer. (good)
5. You can _____ open this tin. (easy)
6. It's a _____ day today. (terrible)
7. She sings the song _____. (good)
8. He is a _____ driver. (careful)
9. He drives the car _____. (careful)
10. The dog barks _____. (loud)

ENGLISH WEEK 3

Read the following passage and answer the questions below

In the town of Agra there lived a rich businessman. But he was also quite a miser. Various people used to flock outside his house everyday hoping for some kind of generosity, but they always had to return home disappointed. He used to ward them off with false promises and then never lived up to his word. Then one day, a poet named Raidas arrived at his house and said that he wanted to read out his poems to the rich man. As the rich man was very fond of poetry, he welcomed him in with open arms.

Raidas started to recite all his poems one by one. The rich man was very pleased and especially so when he heard and especially so when he heard the poem that Raidas had written on him. In those days it was a custom for rich man and kings to show their appreciation through a reward or a gift, as that was the only means of earning that a poor poet possessed. So, the rich man promised Raidas some gifts and asked him to come and collect them the next day, Raidas was pleased.

The next morning when he arrived at the house, the rich man pretended that he had never laid eyes on him before. When Raidas reminded him of his promise, he said that although Raidas was a good poet he liked the poems which were written on him and rest of the poems were very ordinary. He also said that he had earlier promised a reward to Raidas not because he was really pleased or impressed but to simply encourage him. Raidas was extremely upset, but as there was nothing that he could do, he quietly left the house. On his way home he saw his brother Kuber riding a horse. So, he stopped him and asked for his help after narrating the whole incident. Kuber took him to his own house in order to come up with a plan. After giving it to some thought he asked Raidas to go to a friend's house with five gold coins and request the friend to plan a dinner where the rich man would also be invited. He then narrated his plan to him.

Raidas had one trustworthy friend whose name was Mayadas. So, he went up to him and told him his plan. The next day, Mayadas went to the rich man's house and invited him for the dinner. He said that he intended to serve his guests in vessels of gold, which the guests would get to take home after the meal. The rich man was thrilled to hear this and jumped at the offer. After the rich man arrived at Mayadas house, he was surprised to see no other guests there but Raidas. Anyhow, they welcomed him in and started a polite conversation. The rich man had come on an empty stomach and so was hungrier by the minute. Finally, at midnight the rich man could bear his hunger no longer and asked Mayadas to serve the food. Mayadas sounded extremely surprised when he asked him what food he was talking about. The rich man tried to remind him that he had been invited for dinner. At this point Raidas asked him for the proof of the invitation.

- The rich man had no answer. At the point Raidas reminded the rich man of the same treatment that he had meted out to him. The rich man realized his

mistake and begged for forgiveness. He said that Raidas was a good poet and had not asked him for any reward. He himself had promised to give him some gifts and then cheated him out of them. To make up for his mistake he took out the necklace that he was wearing and gifted it to Raidas. Then they all sat down to eat a happy meal

1. Why was the rich businessman thrilled on being invited over to dinner by Mayadas?

2. What did Raidas and Mayadas do when the rich businessman came over for dinner?

3. What did the rich businessman do when Raidas went to collect his reward from him the next day?

4. Why did people flock around the rich businessman's house every day?

5. Why did people always return home disappointed from the businessman's home?

6. How did the rich business react when he realized his mistake of not keeping his promise which he had made to Raidas?

7. Which of the following is the moral of the story?

8. Why was the rich businessman pleased with Raidas?



Write the meanings of the following words in context of the passage:

1. Means

2. Pleased

3. Narrating

4. Trustworthy

5. Intended



ENGLISH WEEK 4

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

1. Have you been to London? (ever)

—

2. Peter doesn't get up before seven. (usually)

—

3. Our friends must write tests. (often)

—

4. They go swimming in the lake. (sometimes)

—

5. The weather is bad in November. (always)

—

6. Peggy and Frank are late. (usually)

—

7. I have met him before. (never)

—

- 8. John watches TV. (seldom)

9. I was in contact with my sister. (often)

10. She will love him. (always)

ENGLISH WEEK 5

Re-write the following phrases in the past tense.

1. I listen: _____

2. We visit: _____

3. They like: _____

4. She dances: _____

5. I play: _____

6. You carry: _____

7. He stops: _____

8. You change: _____

9. We enjoy: _____

10. You try: _____



ENGLISH WEEK 6

Read the following passage and answer the questions below

For many years, the continent of Africa remained unexplored and hence unknown. The main reason was the inaccessibility to its interior region due to the dense forests, wildlife, savage tribal, deserts and barren solid hills. Many people tried to explore the land but could not survive the dangers. David Livingstone is among those brave few who not only explored part of Africa but also lived among the tribals bringing them near to social milieu. While others explored with the idea of expanding their respective empires. Livingstone did so to explore its vast and mysterious hinterland, rivers and lakes. He was primarily a religious man and a medical practitioner who tried to help mankind with it.

Livingstone was born in Scotland and was educated to become doctor and a priest. His exploration started at the beginning of the year 1852. He explored an unknown river in the west Luanda. However, he was reduced to a skeleton during four years of travelling. By this time, he had become famous and when he returned to England for convalescing, entire London, along with Queen Victoria the, turned to welcome him. After few days he returned to Africa.

He discovered the origin of the river Nile in 1866. He again suffered many discomforts. He became too sick and could not even walk. He lost contact with rest of the world and grew anxious to know his whereabouts. Ultimately, it was Stanley, the American journalist, who founded him after many efforts, but Livingstone had died in a tribal village in 1873. His body was brought to London and buried in Westminster with full honor.

1. How did you know that Livingstone had become very famous?

2. Why were people not aware of the existence of Africa?



3. What was the impact of four year travelling on Livingstone?

4. What happened after Livingstone became too sick to walk?

5. Write the meanings of the following words in context of the passage:

a) Dense:

b) Barren:

c) Vast:



d) Exploration:

e) Turned:

f) Rest:

SCIENCE WEEK 1

1. Who record the first evidence of existence of an Atom Phosphorus?
 - a) Joseph John Thomson
 - b) John Dalton
 - c) Rutherford
2. An Atom Consists of
 - a) Nucleus, Proton, Neutron and Electron
 - b) Nucleus, Proton and Neutron
 - c) Nucleus and Proton
3. Nucleus have
 - a) Electrons and Protons
 - b) Neutrons and Protons
 - c) Neutrons
 - d) Electrons
4. Atom is _____ times bigger than nucleus.
 - a) 10000
 - b) 20000
 - c) 30000
 - d) 40000
5. When electrons are removed, An ion gains _____
 - a) Negative charge
 - b) Positive Charge
 - c) Become neutral
 - d) None of the Above
6. When electrons are added, An ion gains _____
 - a) Negative charge
 - b) Positive Charge
 - c) Becomes neutral
 - d) None of the above
7. Which gas is not a greenhouse gas?
 - a) Methane
 - b) Nitrous oxide
 - c) Carbon dioxide
 - d) Hydrogen
8. Most atoms are neutral because
 - a) Number of electrons are equals to number of neutrons
 - b) Number of electrons are equals to number of Protons
 - c) Number of protons are equals to number of neutrons
 - d) None of the Above

SCIENCE WEEK 2

1. The Study of cells at molecular level is called
 - a) Morphology
 - b) Paleontology
 - c) Molecular Biology
 - d) Microbiology
2. Microbiology deals with the study of
 - a) Algae, Bacteria
 - b) Fungi, Protozoa
 - c) Viruses
 - d) All of them
3. Marine biology deals with the study of
 - a) Protozoa
 - b) Bacteria
 - c) Seas and Oceans
 - d) Algae, Fungi
4. Social Biology deals with the study of
 - a) Service Industries
 - b) Communalization
 - c) Social Behaviors
 - d) Both a and b
5. Highly organized living organisms are composed of
 - a) One or more cell
 - b) One cell
 - c) Two cells
 - d) Three cells
6. Which can response to changes in their environment?
 - a) Living Organism
 - b) Non-Living Organism
 - c) Both a and b
 - d) None of a and b
7. Environmental biology deals with the study o
 - a) Relationship of organisms with society
 - b) Relationship of organisms with their environment
 - c) Relation of organisms with technology
 - d) None of the above

-
8. Physical and chemical parameters of water bodies are the example of
- a) Eco-biology
 - b) Parasitology
 - c) Microbiology
 - d) Fresh water biology

SCIENCE WEEK 3

1. Describe the process of respiration
-

2. Draw and label the lungs.

SCIENCE WEEK 4

1. The SI standard of time is based on:
 - a) the daily rotation of the earth
 - b) the yearly revolution of the earth about the sun
 - c) a precision pendulum clock
 - d) none of these

2. A nanosecond is
 - a) 10^9 s
 - b) 10^{-9} s
 - c) 10^{-10} s
 - d) 10^{-12} s

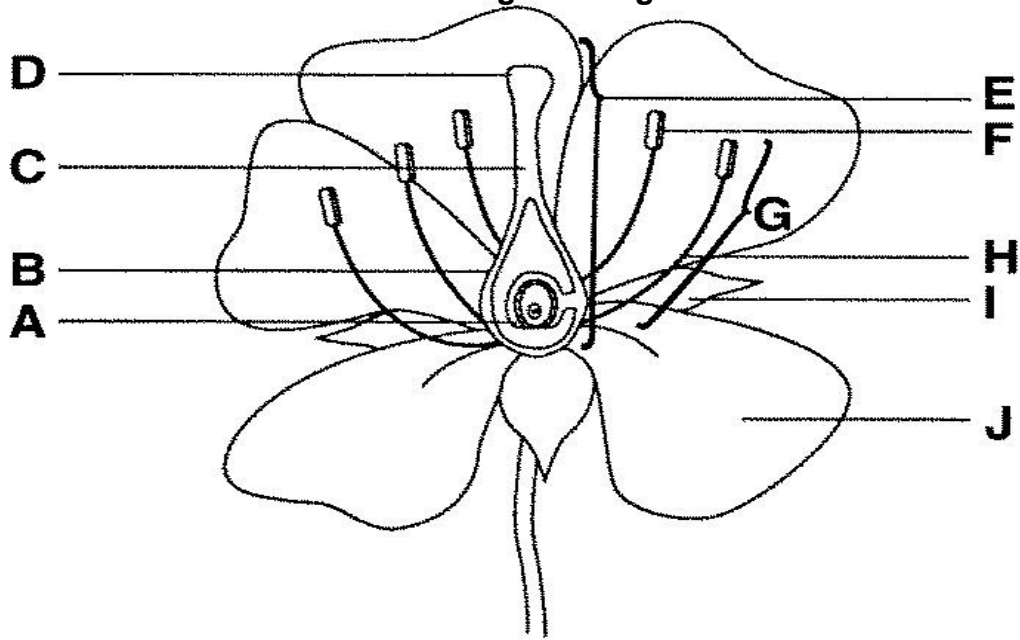
3. There is no SI base unit for area because:
 - a) an area has no thickness; hence no physical standard can be built
 - b) we live in a three (not a two) dimensional world
 - c) it is impossible to express square feet in terms of meters
 - d) area can be expressed in terms of square meter

4. The SI base unit for mass is
 - a) gram
 - b) pounds
 - c) kilograms
 - d) ounce

5. The number of significant figures in 15.0 is
 - a) 1
 - b) 2
 - c) 3
 - d) 4

WEEK 5

Label the given diagram



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

○

SCIENCE WEEK 6

Answer the following questions:

1. Which blood group is called the universal donor?

2. Which plant is used to make paper?

3. How much blood in is the human body?

4. How many facial muscles are involved in speaking?

5. How many taste buds do young people have?

6. How many basic tastes can humans' sense?

7. What is an albino?

8. How many sweat glands does the average person have?

9. What is the simplest sugar?

10. Which vitamin is also known as retinol?



INFORMATION TECHNOLOGY

WEEK 1

Q1. Directory in a directory is called _____?

- A. Sub directory
- B. Mini directory
- C. Junior Directory
- D. Active directory

Q2. Computer word is derived from

- A. Latin
- B. English
- C. Urdu
- D. Hindi

Q3. BIOS Stores in.....

- A. Hard Drive
- B. Ram
- C. Flash Memory Chip
- D. All

Q4. When you press the _____ key by it, it opens and closes the Start menu?

- A. Ctrl
- B. Shift
- C. Alt
- D. Window

Q5. Window key + Ctrl + F

- A. Find Computers
- B. Find files or folders
- C. Show Desktop (toggle)
- D. Run



INFORMATION TECHNOLOGY WEEK 2

Q1. Window key + L

- A. Windows Explorer**
- B. Help**
- C. Show Desktop (toggle)**
- D. Lock Desktop**

Q2. Window key + F

- A. Show system properties**
- B. Find Computers**
- C. Find files or folders**
- D. Run**

Q3 Window key + D

- A. Show system properties**
- B. Find Computers**
- C. Show Desktop (toggle)**
- D. Lock Desktop**

Q4. Window key + E

- A. Windows Explorer**
- B. Utility Manager**
- C. Show Desktop (toggle)**
- D. Run**

Q5. Window key + M

- A. Show system properties**
- B. Help**
- C. Find Computers**
- D. Minimize all applications**



INFORMATION TECHNOLOGY WEEK 3

Q1. Which of the following tab is not present in the control panel program in the start menu?

- A. Web**
- B. Index**
- C. Search**
- D. Contents**

Q2. SQL stands for _____?

- A. Straight Query Language**
- B. Structured Query Language**
- C. Structured Query Laison**
- D. Structured Query Linear**

Q3. FAT stands for _____?

- A. Frequent Allocation Table**
- B. File Allocated Table**
- C. File Allocation Table**
- D. File Allocation Theory**

Q4. FM stands for _____?

- A. Frequent Modulation**
- B. Frequency Modulation**
- C. Frequency Method**
- D. Frequency Molecules**

Q5. JPEG stands for _____?

- A. Joint Photo Electronic Group**
- B. Joint Picture Electronic Group**
- C. Joint photographic experts' group**
- D. Joint Picture Expert Group**



INFORMATION TECHNOLOGY WEEK 4

Q1. PSTN stands for _____?

- A. Process Switched Telephone Network
- B. Public Switched True Network
- C. Public Serial Telephone Network
- D. Public Switched Telephone Network

Q2. YAHOO stands for _____?

- A. Yet Another Hierarchical Officio Oracular
- B. Yahoo Another Hierarchical Officious Oracle
- C. Yet Another Hierarchical Officious Oracular
- D. Yet Another Hierarchical Officious Oracle

Q3. KB stands for _____?

- A. Kit Bit
- B. Kernel Boot
- C. Kilo Byte
- D. Key Block

Q4. You can detect spelling and grammar errors by _____?

- A. Press Shift + F7
- B. Press Ctrl + F7
- C. Press Alt+ F7
- D. Press F7

Q5. How many ways you can save a document?

- A. 3
- B. 4
- C. 5
- D. 6



INFORMATION TECHNOLOGY WEEK 5

Write the full form of each of the abbreviations given below

1. ALU _____
2. CPU _____
3. DOS _____
4. ATM _____
5. LAN _____

Q1. ANSI stands for _____?

- A. Asian Narcotics Standards Institute
- B. American National Standards Institute
- C. Asian National Standards Institute
- D. American Narcotics Standards Institute

Q2. Collection of characters, numbers and symbols is?

- A. Data
- B. Keyboard
- C. Monitor
- D. Ram

Q3. The PowerPoint view that displays only text (title and bullets) is?

- A. Slide show
- B. Slide sorter view
- C. Notes page view
- D. Outline view

Q4. VLSI stands for _____?

- A. Very Large-Scale Immunisation
- B. Very Large-Scale Integration
- C. Very Large-Scale Industry
- D. Very Low Scale Immunisation

Q5. _____ is the measurement of things such as fingerprints and retinal scans used for security access?

6. A. Biometrics
7. B. Bio measurement
8. C. Computer security
9. D. Smart weapon machinery

INFORMATION TECHNOLOGY WEEK 6

Q1. What is the name of an application program that gathers user information and sends it to someone through the Internet?

- A. A virus**
- B. Spybot**
- C. Logic bomb**
- D. Security patch**

Q2. When a logic bomb is activated by a time-related event, it is known as a _____?

- A. Time-related bomb sequence.**
- B. Virus**
- C. Time bomb.**
- D. Trojan horse.**

Q3. The thing that eventually terminates a worm virus is a lack of:

- A. Memory or disk space.**
- B. Time**
- C. CD drives space.**
- D. CD-RW**

Q4. A program that performs a useful task while simultaneously allowing destructive acts is a _____?

- A. Worm**
- B. Trojan horse**
- C. Virus**
- D. Macro virus**

Q5. The common name for the crime of stealing passwords is _____?

- A. Jacking**
- B. Identity theft.**
- C. Spoofing**
- D. Hacking**



MATHAMATICS WEEK 1

Q1. In complex numbers, what is the multiplicative inverse of i ?

- A. $-i$ B. 1 C. -1 D. i

Q2. What is the contrapositive of the statement $p \rightarrow q$?

- A. $q \rightarrow p$ B. $\sim q \rightarrow \sim p$ C. $\sim q \rightarrow p$ D. $\sim p \rightarrow \sim q$

Q3. What is the solution set of the quadratic equation $x^2 - 2x + 1 = 0$?

- A. $\{1\}$ B. $\{-1, 1\}$ C. $\{0, -1\}$ D. $\{1, 2\}$

Q4. What are the partial fractions of $\frac{7x+25}{(x+3)(x+4)}$?

- A. $\frac{3}{x+4} + \frac{3}{x+3}$ B. $\frac{3}{x+4} + \frac{4}{x+3}$ C. $\frac{4}{x+4} + \frac{3}{x+3}$ D. $\frac{-4}{x+4} + \frac{3}{x+3}$

Q5. What is the arithmetic mean between $\sqrt{2}$ and $3\sqrt{2}$?

- A. $\frac{3}{\sqrt{2}}$ B. $\frac{2}{\sqrt{2}}$ C. $\frac{-4}{\sqrt{2}}$ D. $2\sqrt{2}$

○

MATHAMATICS WEEK 2

Q1. Which of the following is the vulgar fraction of $2.232323\dots$?

- A. $\frac{22}{99}$ B. $\frac{222}{99}$ C. $\frac{221}{99}$ D. $\frac{211}{99}$

Q2. What are the first four terms of the sequence $a_n = (-1)^n n^2$?

- A. $-1, 4, -9, 16$ B. $1, -4, 9, -16$ C. $1, 4, 9, 16$ D. $-1, -4, -9, -16$

Q3. For what value of n , ${}^n P_2 = 30$.

- A. 5 B. 6 C. 10 D. 15

Q4. Which one of the following is an expansion of $(1+x)^{-1}$?

- A. $1 - x + x^2 - x^3 + \dots$ B. $1 + x - x^2 + x^3 + \dots$
C. $1 + x + x^2 + x^3 + \dots$ D. $1 - x - x^2 - x^3 + \dots$

Q5. Which of the following is the simplified form of $\frac{1}{1+\sin\theta} + \frac{1}{1-\sin\theta}$?

- A. $\sec\theta$, B. $\sec^2\theta$ C. $2 \sec^2\theta$ D. $2 \sec\theta$

○

MATHAMATICS WEEK 3

Q1. $\sqrt{2}$ is a _____ number.

(a) Rational (b) irrational (c) Prime (d) None

Q2. π is a

(a) Whole number (b) Natural number (c) Rational Number (d) Irrational number

Q3. Modulus of complex number $3 - 4i$ is

(a) 4 (b) - 5 (c) 5 (d) 0

Q4. Additive inverse of (a, b) is

(a) $(a, -b)$ (b) $(-a, b)$ (c) $(-a, -b)$ (d) None

Q5. Find the multiplication Inverse of $2 + 3i$.

○

MATHAMATICS WEEK 4

Q1. Simplify $(1, -2) / (3, 4)$.

Q2. Factorize $a^2 + 9 b^2$.

Q3. Express $1 - i$ in polar form.

Q4. Show that $\sqrt{2}$ is an irrational number.

Q5. If $Z = a + i b$ then prove that $Z - \bar{Z}$ is imaginary.



MATHAMATICS WEEK 5

Q1. A set has objects.

(a) Identical (b) Not well-defixed (c) Distinct (d) None

Q2. The set {1, 2, 3} and {2, 1, 3} are

(a) Equal (b) Equivalent (c) Different (d) Equal and Equivalent

Q3. A Singleton set has.....

(a) One element (b) No element (c) Two element (d) None of these

Q4. If every element of a set A is an element of set B then

(a) $A \subset B$ (b) $A \supset B$ (c) $B \subseteq A$ (d) None

Q5. If B is a super set of A then

(a) $A \subset B$ (b) $B \supset A$ (c) $B \supseteq A$ (d) None



MATHAMATICS WEEK 6

Q1. A is an improper subset of B when $A \subset B$ and.....

- (a) $A = B$ (b) $A - B = U$ (c) $A \cap B = \Phi$ (d) None

Q2. If $n(s) = m$, then $nP(s) = \dots\dots\dots$

- (a) 2^m (b) 2^{m-1} (c) 2^{m+1} (d) 3^m

Q3. $A \cup B$ is defined as

- (a) $\{x / x \in A \vee x \in B\}$ (b) $\{x / x \in A \wedge x \in B\}$
(c) $\{x / x \in A \wedge x \in B\}$ (d) None

Q4. $A \cup \Phi = \dots\dots\dots$

- (a) A (b) Φ (c) u (d) None

Q5. $A \cap B$ is defined as.....

- (a) $\{x / x \in A \vee x \in B\}$ (b) $\{x / x \in A \wedge x \in B\}$
(c) $\{x / x \in A \wedge x \in B\}$ (d) None



اردو مشقی یارچہ نمبر ۱

- سوال نمبر ۱۔ کس ملک نے سب سے پہلے تھری جی متعارف کرایا؟
- سوال نمبر ۲۔ اردو کے پہلے ناول نگار کون ہیں؟
- سوال نمبر ۳۔ خلا میں جانے والے پہلے شخص کا نام بتائیں؟
- سوال نمبر ۴۔ دنیا میں دوسرے نمبر پر سب سے زیادہ کون سا کھیل کھیلا جاتا ہے؟
- سوال نمبر ۵۔ وہ کون سا جانور ہے جو چھ ماہ جاگتا ہے اور چھ ماہ سوتا ہے؟
- سوال نمبر ۶۔ نارمل حالت میں انسان ایک منٹ میں کتنی بار سانس لیتا ہے؟
- سوال نمبر ۷۔ صفت سے کیا مراد ہے؟ اس کی کتنی اقسام ہیں؟
- سوال نمبر ۸۔ حضرت محمدؐ کی ازواج میں سے کوئی پانچ نام تحریر کیجئے؟
- سوال نمبر ۹۔ پاکستان کے پہلے اور دوسرے وزیر اعظم کے نام تحریر کیجئے؟
- سوال نمبر ۱۰۔ "ہندوستان کے وفادار مسلمان" کس کی تصنیف ہے؟

<https://youtu.be/NZEIInAygBY>

مشقی پارچہ نمبر ۲

- سوال نمبر ۱۔ عناصر خمسہ کے نام بتائیے۔
سوال نمبر ۲۔ وحی متلو اور وحی غیر متلو سے کیا مراد ہے؟
سوال نمبر ۳۔ مرزا غالب کا کوئی شعر تحریر کیجئے۔
سوال نمبر ۴۔ محاوروں کو جملوں میں استعمال کیجئے۔
۱۔ کان پر جوں نہ ریگنا
۲۔ آسمان سے باتیں کرنا
۳۔ رونگتے کھڑے ہونا
سوال نمبر ۵۔ سب سے بڑا ریگستان کون سا ہے؟
سوال نمبر ۶۔ امریکہ کا دار الحکومت کیا ہے؟
سوال نمبر ۷۔ وہ کون سے سورہ ہیں جو حیوانات کے نام پر ہیں؟
سوال نمبر ۸۔ نہج البلاغہ کس کی تحریر ہے؟
سوال نمبر ۹۔ ایران کی کرنسی کا نام بتائیں۔
سوال نمبر ۱۰۔ تاج محل کس نے تعمیر کرایا؟

<https://youtu.be/PeLvQdjCOYI>

مشقی پارچہ نمبر ۳

سوال نمبر ۱. پاکستان کرکٹ ٹیم کا پہلا کپتان کون تھا؟

سوال نمبر ۲. اردو کے پہلے شاعر کون تھے؟

سوال نمبر ۳. دنیا کی سب سے قیمتی دھات کون سی ہے

سوال نمبر ۴. متضاد الفاظ لکھئے۔

۱. ادنیٰ

۲. نور

۳. نفع

سوال نمبر ۵. مندرجہ ذیل جملوں میں اجتماعی اسم خط کشیدہ کیجئے۔

۱. گلدستہ میز پر رکھا ہے۔

۲. شہد کی مکھیوں کے چہتے کومت چھیڑو۔

۳. چابیوں کا گچھا کہاں ہے۔

سوال نمبر ۶. نبیوں کے نام پر قرآن میں کتنے سورہ ہیں؟

سوال نمبر ۷. وہ کونسا سورہ ہے؟ جو پیغمبر کے قبیلے کے نام پر ہے۔

سوال نمبر ۸. کانگریس کب قائم ہوئی؟

سوال نمبر ۹. دنیا کا سب سے لمبا جانور کونسا ہے؟

سوال نمبر ۱۰. شاہ ولی اللہ نے قرآن کا ترجمہ کس زبان میں کیا؟

<https://youtu.be/50oBk0MDCZg>

مشقی پارچہ نمبر ۴

- سوال نمبر ۱. پاکستان کا قومی پرچم کس نے ڈیزائن کیا؟
سوال نمبر ۲. دنیا کا قدیم ترین دار الحکومت کس ملک کا ہے
سوال نمبر ۳. جدید کمپیوٹر کا باپ کس کو کہا جاتا ہے؟
سوال نمبر ۴. ہمارے جسم میں کتنے لیٹر خون ہوتا ہے؟
سوال نمبر ۵. حضرت محمدؐ جب مدینے تشریف لائے تو آپؐ نے کہاں قیام کیا؟
سوال نمبر ۶. بیڈمنٹن کھیل کی ابتداء کس ملک سے ہوئی؟
سوال نمبر ۷. مترادف الفاظ بتائیے۔

۱. بندگی

۲. پوشیدہ

۳. تحسین

- سوال نمبر ۸. پھلوں کے مطالعے کو کیا کہتے ہیں؟
سوال نمبر ۹. انسانی آنکھ کا وزن کتنے گرام ہے؟
سوال نمبر ۱۰. رسالہ اسباب بغاوت بند کس کی تحریر ہے؟

<https://youtu.be/50oBk0MDCZg>

<https://youtu.be/NZEIInAygBY>

مشقی پارچہ نمبر ۵

- سوال نمبر ۱۔ بادشاہی مسجد کس بادشاہ کے عہد میں تعمیر کی گئی؟
سوال نمبر ۲۔ اردو غزل کا پہلا دیوان کس نے مرتب کیا؟
سوال نمبر ۳۔ ہمارے نبیؐ کا نام محمدؐ قرآن میں کتنی دفعہ آیا ہے؟
سوال نمبر ۴۔ انٹرنیشنل کرکٹ کونسل (آئی سی سی) کا قیام کب عمل میں آیا؟
سوال نمبر ۵۔ توانائی کی اکائی کیا ہے؟
سوال نمبر ۶۔ دنیا کا سب سے زیادہ آتش فشاں پہاڑوں والا ملک کون سا ہے؟
سوال نمبر ۷۔ مترادف الفاظ بتائیے۔

۱۔ دانائی

۲۔ خدا حافظ

۳۔ آئین

- سوال نمبر ۸۔ مرثیہ کسے کہتے ہیں؟
سوال نمبر ۹۔ انسانی دل کی لمبائی تقریباً کتنی انچ ہوتی ہے؟
سوال نمبر ۱۰۔ صوبائی گورنر کو کون نامزد کرتا ہے؟

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

<https://youtu.be/Aj-9PbkE9HQ>

مشقی پارچہ نمبر ۶

- سوال نمبر ۱۔ مخمس میں کتنے مصرے ہوتے ہیں؟
سوال نمبر ۲۔ زبیدہ کس خلیفہ کی ملکہ تھی؟
سوال نمبر ۳۔ خدائے سخن کس کا لقب ہے؟
سوال نمبر ۴۔ الطاف حسین حالی نے پہلی سوانح کس کی لکھی؟
سوال نمبر ۵۔ سیرت نعمان اور المامون کس کی تصانیف ہیں؟
سوال نمبر ۶۔ پاکستان کی سب سے بڑی بندرگاہ کہاں ہے؟
سوال نمبر ۷۔ حضرت خدیجہؓ کے والد کا کیا نام تھا؟
سوال نمبر ۸۔ حضرت محمدؐ نے کس صحابیؓ کے لیے کہا کہ وہ اہلبیت میں سے ہیں؟
سوال نمبر ۹۔ قطب نما کس کی ایجاد ہے؟
سوال نمبر ۱۰۔ مندرجہ ذیل ملکوں کے دارلحکومتوں کے نام بتائیے۔

(۱) ایران

(۲) افغانستان

(۳) عراق

<https://youtu.be/XgViUCm2Eqo>

<https://youtu.be/7UCfHLH1JP0>

<https://youtu.be/0DBiBbGX2P4>