



Summer Vacations Homework 2020

Class: 10th

Cantt Public Education System

A NEW FRONTIER IN LEARNING

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 July 2020. Therefore, we are pleased to share our plans for online instructions and homework activities.

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

Group	Days	Timings	Subjects	Remarks
I	Monday – Day 1	09.00-09.40	Physics	Principal shall ensure availability of subject teachers to students for coaching/clarification doubts etc.
	Tuesday – Day 2	10.00-10.40	English	
	Wednesday – Day 3	11.00-11.40	Urdu	
		12.00-12.40	Chemistry	
II	Thursday – Day 4	09.00-09.40	Computer/Biology	
	Friday – Day 5	10.00-10.40	Mathematics	
		11.00-11.40	Islamiyat/ Nazra	
	Saturday – Day 6	12.00-12.40	Pak studies/GK	

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

Ser. #	Subject	Pages	
		From	To
1	English	3	13
2	Mathematics	14	21
3	Chemistry	22	36
4	Biology	36	50
5	Computer	50	56
6	Physics	57	66
7	Pakistan Studies/G.K	67	73
8	Islamiyat	73	81
9	Urdu	82	89

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

Regards

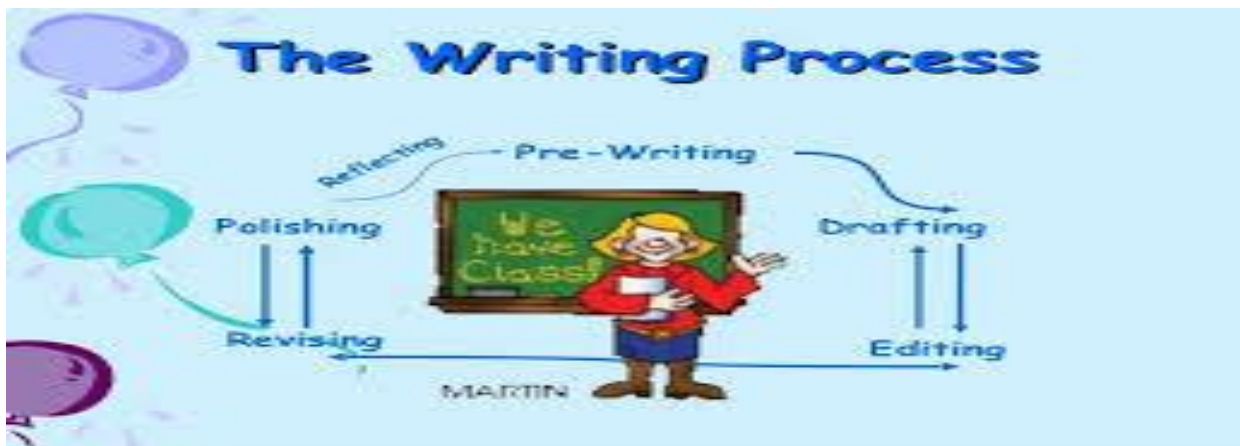
English

(20 July-25 July 2020)

Day-1

1. Creative Writing

Write a letter to your father informing him about your studies and requesting him to send you money. The letter should include details about everything.



2. Choose the correct answer

- 1) To whom did the Rasool (S.A.W) give following advise:-
a) Hazrat Abu Bakr Siddique b) Hazrat Ali c) Hazrat Umar d) Hazrat Bilal.
- 2) Ancestor is the synonym of:
a) Antecedent b) forefather c) predecessor d) just
- 3) Hanging up signs and posters on doors and windows means:
a) Love and sincerity b) care and affection c) luck and happiness d) hate
- 4) Number 'eight' is the sign of:
a) Prosperity b) hate c) anger d) evil
- 5) Which colour is not allowed to wear on Chinese New Year Day?
a) Red b) blue c) pink d) black
- 6) As slow as a turtle identify which figure of speech it is:
a) Simile b) metaphor c) imagery d) none of them
- 7) If a/an _____ appears, stop using the ointment.
a) Infection b) allergy c) rash d) redness
- 8) The synonym of aesthetic is:
a) beautiful b) ugly c) annoying d) none of them
- 9) Everybody had a _____ on his or her face on the way home.
a) Simile b) smirk c) amusing d) cheap
- 10) I ate a _____ sandwich. Which connotation is more negative.
a) Soggy b) moist c) uneasy d) grin

Day-2



Phrasal Verbs

Click the link for better understanding of the Phrasal Verbs:

<https://youtu.be/2t1M2ARbj1M>

Exercise

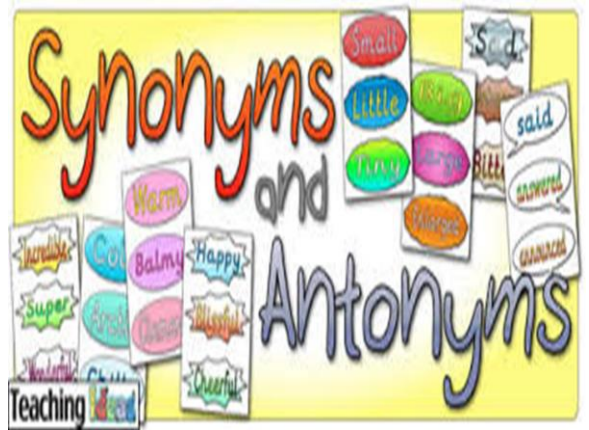
3. Choose the correct phrasal verb from the parenthesis at the end of the sentence

1. My brother _____ up early in the morning (got, took)
2. _____ after my father. We both like telling funny stories (get, take)
3. Hurry up our planes is going to _____ off in a few minutes (get, take)
4. I watched too much TV so I _____ behind in my homework (got took)
5. Let's _____ together this weekend and go to the restaurant. (get, take)
6. In Japan people always _____ off their shoes when enter a house (get take)
7. Ali started a new restaurant last month and it's really _____ off. (got, took)
8. The baby was _____ for milk. s(cry,crying)
9. I already _____ three cups of coffee. (take, took)
10. It _____ to rain an hour ago. (began, begin)

Day-3

Antonyms/Synonyms

1. The synonym of 'persevere' 'is _____
a) Persist b) give up c) surrender
2. The synonym of 'reward' is _____
a) Fine b) prize c) penalty
3. The antonym of 'mighty 'is _____
a) Weak b) grand c) strong
- 4) The synonym of 'current' is _____
a) Dated b) old c) up-to date
- 5) The synonym of 'solace' is _____
a) Aggravation b) frustration c) comfort
- 6) The antonym of 'suffering' _____
a) Distress b) pleasure c) anguish
- 7) The antonym of 'consume' is _____
a) utilize b) save c) use
- 8) The synonym of word 'amazing' _____
a) Wonderful b) far c) astounding
- 9) The synonym of word 'strange'
a) Odd b) usual c) pleasant
- 10) The antonym of word admit _____
a) Admitted b) deny c) agree



(27 July-1 Aug -2020)

Day -1

UNIT 4: First Aid (Pg no 38 to 41)

(Text Book Exercise)

After reading the text answer the following questions.

1. You should not keep checking if the bleeding has stopped? Why?
2. Why is necessary to keep away the soap from the wound?
3. How is an antibiotic cream or ointment good in healing the wound?
4. When do you need to see a doctor?
5. What should your first aid kit consist of?



Additional short question and answers

6. What do you understand by "first aid"?
7. What is the importance of knowledge of 'first aid 'in crisis management'?
8. Have you ever given first aid to anyone?

Day -2

Comprehension

Read the following passage and answer the questions at the end:

Read the passage and answer the questions that follow:

Mike and Morris lived in the same village. While Morris owned the largest jewelry shop in the village, Mike was a poor farmer. Both had large families with many sons, daughters-in-law and grandchildren. One fine day, Mike, tired of not being able to feed his family, decided to leave the village and move to the city where he was certain to earn enough to feed everyone. Along with his family, he left the village for the city. At night, they stopped under a large tree. There was a stream running nearby where they could freshen up themselves. He told his sons to clear the area below the tree, he told his wife to fetch water and he instructed his daughters-in-law to make up the fire and started cutting wood from the tree himself. They didn't know that in the branches of the tree, there was a thief hiding. He watched as Mike's family worked together and also noticed that they had nothing to cook. Mike's wife also thought the same and asked her husband " Everything is ready but what shall we eat?". Mike raised his hands to heaven and said " Don't worry. He is watching all of this from above. He will help us."

The thief got worried as he had seen that the family was large and worked well together. Taking advantage of the fact that they did not know he was hiding in the branches, he decided to make a quick escape. He climbed down safely when they were not looking and ran for his life. But, he left behind the bundle of stolen jewels and money which dropped into Mike's lap. Mike opened it and jumped with joy when he saw the contents. The family gathered all their belongings and returned to the village. There was great excitement when they told everyone how they got rich.

Morris thought that the tree was miraculous and this was a nice and quick way to earn some money. He ordered his family to pack some clothes and they set off as if on a journey. They also stopped under the same tree and Morris started commanding everyone as Mike had done. But no one in his family was willing to obey his orders. Being a rich family, they were used to having servants all around. So, the one who went to the river to fetch water enjoyed a nice bath. The one who went to get wood for fire went off to sleep Morris's wife said " Everything is ready but what shall we eat?" Morris raised his hands and said, " Don't worry. He is watching all of this from above. He will help us."

As soon as he finished saying, the thief jumped down from the tree with a knife in hand. Seeing him, everyone started running around to save their lives. The thief stole everything

they had and Morris and his family had to return to the village empty handed, having lost all their valuables that they had taken with them.

Question 1: Why did Mike and his family decide to rest under the thief's tree?

- A) Being a large family, they knew that they could easily defeat the thief.
- B) It was a convenient spot for taking a halt at night.
- C) There was a stream nearby and wood enough to build a house.
- D) That was the only large tree that could shelter their large family.

Question 2 : Which of the following best describes Morris ?

- A) He was a rich businessman.
- B) He bullied his wife.
- C) He paid his servants well.
- D) He was greedy and imitated Mike.

Question 3: What did Mike mean when he said "He is watching all this from above"?

- A) He had spotted the thief and wanted to scare him
- B) He was telling his wife to have faith in God.
- C) It was just a warning for his family members to stick together.
- D) He was begging the thief to help his family.

Question 4: Why did the thief return to the tree?

- A) To wait for Mike to return.
- B) To set up a trap.
- C) To wait for Morris's family.
- D) Not mentioned in the passage.

Question 5: How did the fellow villagers react to Mike getting rich overnight?

- A) They were jealous of him.
- B) They were very excited.
- C) They followed his example.
- D) They envied him

Summarize the passage in your own words and also suggest title

Poem

ALFRED, LORD TENNYSON

Break, break, break,
On thy cold gray stones, O Sea!
And I would that my tongue could utter
The thoughts that arise in me.

O, well for the fisherman's boy,
O, well for the sailor lad,
That he sings in his boat on the bay!

And the stately ships go on
To their haven under the hill;
But O for the touch of a vanished hand,
And the sound of a voice that is still!

Break, break, break
At the foot of thy crags, O Sea!
But the tender grace of a day that is dead
Will never come back to me.



Write down theme of poem in your own words?

Day-3

Essay: Write an essay 'My Aim in Life'

Change the Narration



Watch the video and change narration of the following.

<https://www.youtube.com/watch?v=RMlexWdwTuM>

Exercise

1. Rahul asked me, 'Did you see the cricket match on TV last night'?
2. James said to his mother, 'I am leaving for New York tomorrow. ' .
3. I said to him, 'Why don't you work hard? '
4. He said to her, 'What a hot day! '
5. The priest said, 'Be quiet and listen to my words.

(3 Aug-8 Aug 2020)

Day 1

Topic: Punctuation

Follow the links

<https://www.youtube.com/watch?v=q8gHMZIA6Vs>

Punctuate the following paragraph.

Winston is one of the most laid-back people i know he is tall and slim with black hair and he always wears a t-shirt and black jeans his jeans have holes in them and his baseball boots are scruffy too he usually sits at the back of the class and he often seems to be asleep however when the exam results are given out he always gets an "A" I don't think he is as lazy as he appears to be

Application

Write an application to your principal requesting her to give you extra classes.

Day-2

Comprehension

Read the passage carefully and answer the following questions

A chimpanzee is one of the great apes and the nearest in intelligence to man. Scientists have examined its mental capacities and sent it into space in anticipation of man. Chimpanzees need little description. Being apes and not monkeys, they have no tails. Their arms are longer than their legs and they normally rim on all fours. They can also walk upright with toes turned outwards. When erect they stand 3-5 ft. high. The hair is long and coarse, black except for a white patch near the rump. The face, ears, hands and feet are bare and except for the black face, the flesh is colored.

Cantt Public Education System

Chimpanzees exhibit great concern for each other. When chimpanzees meet after having been apart they greet each other in a very human way by touching each other or even clasping hands. Chimpanzees have amazing social discipline. When a dominant male arrives, the rest of the chimpanzee's hurry to pay respect to it. The dominant male is not allowed to wrest food from his inferiors. The members of a party also spend considerable amount of time grooming each other and themselves. Mothers go through the fur of their babies for any foreign particles, dirt, and ticks and they aid each other when they are injured.

Chimpanzees are the best tools users apart from man. Sticks 2-3 ft. long are picked off the ground or biological branches and pushed into nests, then withdrawn and the honey or insects licked off. Stones are and nuts or as missiles to drive humans and baboons away from its food. Chimpanzees are not only toots also toolmakers. They make their own rods by stripping the leaves off a twig or tear shreds off a chimpanzees learn all this by observing the older chimpanzees making and using them. So man is not the easily toolmaker, merely better at it than his relatives.

Questions

- (a) Chimpanzees are as _____ men.
- (b) Chimpanzees greet each other by _____ each other.
- (c) Like man, chimpanzees are _____
- (d) Chimpanzees _____ tails.
- (e) Baby chimpanzees learn, all by _____
- (f) Chimpanzees have amazing _____
- (g) The dominant male chimpanzees is not allowed _____
- (h) The word 'wrest' means _____

Day-3

Change the narration

- 1) He said to me, "Call me back later."
- 2) "Have a seat." He told him.
- 3) He said to me, "Could you call me back later?"
- 4) She said to him, "Will you have a seat?"
- 5) Mother said to the child, "Can you not do that please?"
- 6) She said to her, "Where do they live?"
- 7) I said to my friend, "When are you leaving?"
- 8) he said to him, "How will they get here?"

Letter

B) Write a letter to your friend thanking him/her for the books he/she lent you.

Phrasal verbs

- 1. Scared of 2. Get off 3. Aching 4. Surly 5. Give away 6. Fit of fury

(10 Aug -15 Aug 2020)

Day -1

Comprehension Passage

Read the following passage carefully:

These days, it is not unusual to see people listening to music or using their electronic gadgets while crossing busy roads or travelling on public transports, regardless of the risks involved. I have often wondered why they take such risks is it because they want to exude a sense of independence, or is it that they want to tell the world to stop bothering them? Or is it that they just want to show how cool they are? Whether it is a workman or an executive, earphones have become an inseparable part of our lives, sometimes even leading to tragicomic situations.

The other day, an electrician had come to our house to fix something. We told him in detail what needed to be done. But after he left, I found that the man had done almost nothing. It later turned out that he could not hear our directions clearly because he had an earphone on. Hundreds of such earphones addicts commute by the Delhi Metro every day. While one should not begrudge anyone their moments of privacy or their love for music, the fact is 'iPod oblivion' can sometimes be very dangerous.

Recently, I was travelling with my wife on the Delhi Metro. Since the train was approaching the last station, there weren't too many passengers. In our compartment, other than us, there were only two women sitting on the other side of the aisle. And then suddenly, I spotted a duffel bag. The bomb scare lasted for several minutes. Then suddenly, a youth emerged from nowhere and picked up the bag. When we tried to stop him, he looked at us, surprised. Then he took off his earpieces, lifted the bag, and told us that the bag belonged to him and that he was going to get off at the next station.

We were stunned but recovered in time to ask him where he was all this while. His answer: he was in the compartment, leaning against the door totally immersed in the music. He had no clue about what was going on around him. When he got off, earplugs in his hand, we could hear strains of the song.

Questions

(A) Read the above passage and answer the questions that follow:

- (i) What reasons does the author offer for the people taking risks on the road?
- (ii) Why didn't the electrician carry out the work properly?
- (iii) Why were the people in the Metro doubtful about the bag?
- (iv) Why were the passengers stunned?
- (v) Explain the term 'earphone addicts'?

Creative Writing

<https://www.youtube.com/watch?v=OWjyx1z4U9A>

Go through the link and write the story in your own words, all rules are explained.

Day -2

Poem

Unit 5

The Rain pg no 59

W.H Davies



I hear leaves drinking rain;
I hear rich leaves on top
Giving the poor beneath
Drop after drop;
'Tis a sweet noise to hear
These green leaves drinking near.

And when the Sun comes out,
After this Rain shall stop,
A wondrous Light will fill
Each dark, round drop;
I hope the Sun shines bright;
Twill be a lovely sight.

Answer the following questions

- 1 What does the poet hear?
- 2 What will happen after the rain stops?
- 3 How does the light fills the drops?
- 4 What make the scene lovely?
- 5 What according to the poet is a sweet noise?

Phrasal verb

Use the following phrasal verb in your sentences.

- a. Good at
- b. Excused off
- c. Sad at
- d. Tired off
- e. Come up
- f. Pass through
- g. Take off
- h. Wipe out

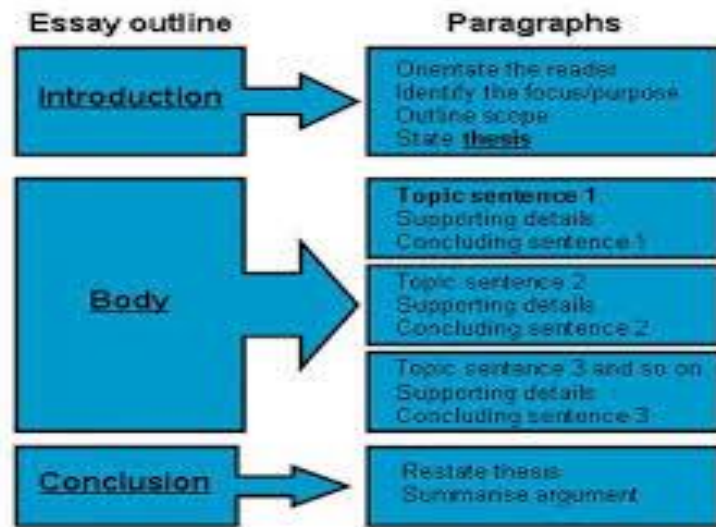
Application

Write an application to your school Principal for annual picnic.

Day-3

Essay Writing

Write an essay on our Holy Prophet (S A W) the greatest educator of mankind.



(17 Aug - 21 Aug 2020)

Day-1

Click the below mentioned links for conceptual clarity of Transitive and Intransitive verbs.

<https://www.youtube.com/wattah?v=Y01ggQZfYF0>

<https://youtu.be/Y01ggQZfYF0>

Definition of Transitive and Intransitive

Intransitive Verb

Q: "laughed" what?

The pirates **laughed** **heartily.**

A: Nothing

Transitive Verb

Q: "found" what?

The pirates **found** **the treasure.**

direct object



A transitive verb **transitions** to an object to complete its meaning.

A verb can be described as *transitive* or *intransitive* based on whether it requires an object to express a complete thought or not. A transitive verb is one that only makes sense if it exerts its action on an object. An **intransitive verb** will make sense without one. Some verbs may be used both ways.

Pick out the verb in each sentence and state whether it is transitive or intransitive.

1. The sun shines bright.
2. I hear a noise.
3. Ali drives the car carefully.

4. You got angry with your sister.
5. Sarmad ate a lot of sweets.
6. She knows the secret.

Activity

Suggest any suitable title to the poem **“The rain”** and give logic and reasoning to your statement.

Day-2

Unit 6: Television Vs Newspaper

(Textbook Exercise) Pg. No (68-69)

1. How is a newspaper more convenient medium of news?
2. How on does a viewer news TV is easier than reading a newspaper?
3. Which medium do you prefer for news? Why?

Day -3

Unit 6: Television Vs Newspaper

Additional short question and answers

1. What is one good thing about newspaper?
2. How does television make us lazy?
3. Have you ever given your views on any article?



(24 Aug -29 Aug 2020)

Day 1

Reading comprehension

Analysis the patterns of text organization

Choose the correct answer after understanding the text

1. If blood spurts or continues flowing after continuous pressure, _____
a) Do first aid b) apply gentle pressure with a clean cloth c) seek medical assistance
2. Through cleaning reduces the risk of _____
a) Infection and tetanus b) allergy c) rash
3. If a _____ appear stop using the ointment.
a) Infection b) rash c) allergy
4. Change the dressing at least _____

a) Weekly b) twice a day c) daily

5. Band aids or sticky plasters are good for dressing small _____

a) Wounds b) burns c) fractures

Day-2

Write a paragraph of about 60 to 70 words on "**WOMEN RIGHTS**".

Day-3

Topic Writing Skills Pg. no (66)

1. Write the main idea of the poem

2. Write a summary analysis of the poem "**The Rain**"

Essay Writing

Write an essay on Covid-19 Corona Virus effects explain in details that how it effects economy, poor, education, unemployment in detail.

Active and passive voice



1. The government builds a new bridge.
2. He throws a ball.
3. The candle is lighted by him.
4. She has stolen by book.
5. Do you eat meat?
6. He was revising book.
7. Was work finished by her?

MATHEMATICS

(20th JULY 2020 – 25th JULY 2020)

Day-1

Unit: 3 VARIATIONS:

Ratio, Proportions and Variations

(a) Ratio:

A relation between two quantities of the same kind (measured in same unit) is called ratio. If a and b are two quantities of the same kind and b is not zero, then the ratio of a and b is written as **a : b** or in fraction $\frac{a}{b}$

For example, If a hockey team wins 4 games and loses 5, then the ratio of the games won two games lost is 4 : 5 or in fraction $\frac{4}{5}$ (pg 50)

- Q.** Express the following as a ratio a : b and as a fraction in its simplest (lowest) form (pg 52)
- i) 450cm, 3m.
 - ii) 4kg, 2kg 750gm

Video Lecture Link:

https://www.youtube.com/watch?v=6Fp1nU6Q1RA&list=PLPH7GpQi8xAQIIPeW8OeJbS_X3TVBXmW&index=66

(b) Proportion:

A proportion is a statement, which is expressed as an equivalence of two ratios.

If two ratios **a : b** and **c : d** are equal, then we can write **a : b = c : d**

Where quantities a, d are called extremes, while b, c are called means. Symbolically the proportion of a, b, c and d is written as

	a : b :: c : d
Or	a : b = c : d
Or	$\frac{a}{b} = \frac{c}{d}$
i.e	ad = be

This shows that, Product of extremes = Product of means. (pg 51)

- Q.** Find x in the following proportions (pg 53)

$$\frac{3x-1}{7} : \frac{3}{5} :: \frac{2x}{3} : \frac{7}{5}$$

Video Lecture Link: https://www.youtube.com/watch?v=jarCJC2p_xo

Day-2

(c) Variation:

The word variation is frequently used in all sciences. There are two types of variations: (i) Direct variation (ii) Inverse variation. (pg 53)

- Q.** If y varies directly as x, and y = 8 when x = 2, find (pg 56)
- i) y in terms of x
 - ii) y when x = 5

Video Lecture Link: <https://www.youtube.com/watch?v=eRBJYAeQO-k>

(a) Direct Variation:

If two quantities are related in such a way that increase (decrease) in one quantity causes increase (decrease) in the other quantity, then this variation is called direct variation.

In other words, if a quantity y varies directly with regard to a quantity x. We say that y is **directly proportional** to x and is written as **y ∝ x** or **y = kx**. i.e., $\frac{y}{x} = k$, **k ≠ 0**.

The sign ∝ read as "**varies as**" is called the sign of proportionality or variation, while **k ≠ 0** is known as constant of variation.

For example. (i) Faster the speed of a car, longer the distance it covers.

(ii) The smaller the radius of the circle, smaller the circumference is. (pg 53)

Q. If w varies directly as u^3 and $w = 81$ when $u = 3$. Find w when $u = 5$. (pg 56)

(b) Inverse Variation

If two quantities are related in such a way, that when one quantity increases, the other decreases is called **inverse variation**. In other words, if a quantity y varies inversely with regard to quantity x . We say that y is inversely proportional to x or y varies inversely as x and is written as $y \propto \frac{1}{x}$ or $y = \frac{k}{x}$. i.e., $xy = k$, where $k \neq 0$ is the constant of variation. (pg 55)

Q. If y varies inversely as x and $y = 7$ when $x = 2$, find y when $x = 126$. (pg 56)

Video Lecture Link: <https://www.youtube.com/watch?v=7kEBEMaQahE>
<https://www.youtube.com/watch?v=LcNGHT2iLws>

Day-3

Find 3rd, 4th, Mean and Continued Proportion:

We are already familiar with proportions that if quantities a, b, c and d are in proportion, then $a : b :: c : d$

i.e., product of extremes = product of means (pg 56)

Third Proportional:

If three quantities a, b and c are related as $a : b :: b : c$, then c is called the **third proportion**.

Q. Find a third proportional to (pg 58)

(i) 6, 12

Fourth Proportional:

If four quantities a, b, c and d are related as $a : b :: c : d$

Then d is called the **fourth proportional**. (pg 57)

Q. Find a fourth proportional to (pg 58)

(i) 5, 8, 15

Video Lecture Link: <https://www.youtube.com/watch?v=8SOYjiR4I4U>

Mean Proportional:

If three quantities a, b and c are related as $a : b :: b : c$, then b is called the **mean proportional**. (pg 57)

Q. Find a mean proportional between (pg 58)

(i) 20, 45

Continued Proportion:

If three quantities a, b and c are related as $a : b :: b : c$, where a is first, b is the mean and c is the third proportional, then a, b and c are in **continued proportion**. (pg 57)

Q. Find the values of the letter involved in the following continued proportions. (pg 58)

(i) 5, p , 45

Video Lecture Link: <https://www.youtube.com/watch?v=hzdZr20kV18>

(27th JULY 2020 – 1st AUG 2020)

Day-1

Theorems on Proportions:

If four quantities a, b, c and d form a proportion, then many other useful properties may be deduced by the properties of fractions. (pg 58)

a) Theorem of Invertendo:

If $a : b = c : d$, then $b : a = d : c$

Q. If $3m : 2n = p : 2q$, then (pg 58)

$$2n : 3m = 2q : p$$

Video Lecture Link: <https://www.youtube.com/watch?v=bhMc7SAM0Ww>

Day-2

b) Theorem of Alternando:

If $a : b = c : d$, then $a : c = b : d$

Q. Prove that (pg 62)

(i) $\frac{4a + 5b}{4a - 5b} = \frac{4c + 5d}{4c - 5d}$

Day-3

c) Theorem of Componendo:

If $a : b = c : d$ then

Q. Using theorem of Componendo – Dividendo (pg 63)

(i) Solve $\frac{(x-2)^2 - (x-4)^2}{(x-2)^2 + (x-4)^2} = \frac{12}{13}$

Video Lecture Link: <https://www.youtube.com/watch?v=oExQoLaeB5M&t=11s>

(3rd AUG 2020 – 8th AUG 2020)

Day-1

Joint Variation:

A combination of direct and inverse variations of one or more than one variables forms **joint variation**.

If a variable y varies directly as x and varies inversely as z.

Then $y \propto x$ and $y \propto \frac{1}{z}$ (pg 63)

Q. If s varies directly as u^2 and inversely as v and $s = 7$ when $u = 3$, $v = 2$. Find the value of s when $u = 6$ and $v = 10$. (pg 65)

Video Lecture Link: <https://www.youtube.com/watch?v=-8Ny9vabNWA>

Day-2

K-Method:

Use k-method to prove conditional equalities involving proportions. If $a : b :: c : d$ is a proportion, then putting each ratio equal to k

$$\frac{a}{b} = \frac{c}{d} = k$$

$$\frac{a}{b} = k \text{ and } \frac{c}{d} = k$$

$$a = bk \text{ and } c = dk \text{ (pg 65)}$$

Q. If $a : b = c : d$, ($a, b, c, d, \neq 0$), then show that

$$\frac{(4a - 9b)}{(4a + 9b)} = \frac{(4c - 9d)}{(4c + 9d)}$$

Q. If $\frac{a}{b} = \frac{c}{d} = \frac{e}{f}$ ($a, b, c, d, e, f \neq 0$), then show that

$$\frac{a}{b} = \sqrt{\frac{a^2 + c^2 + e^2}{b^2 + d^2 + f^2}} \text{ (pg 67-68)}$$

Video Lecture Link: <https://www.youtube.com/watch?v=Naj5NeKQ-zE>

Video Lecture Link: https://www.youtube.com/watch?v=hUp15_eFhio

Day-3

Real Life Problems Based On Variation:

Q. The surface area A of a cube varies directly as the square of the length l of an edge and $A = 27$ square units when $l = 3$ units.

- Find
- (i) A when $l = 4$ units
 - (ii) l when $A = 12$ sq. units. (pg 69)

Q. The pressure P in a body of fluid varies directly as the depth d. If the pressure exerted on the bottom of a tank by a column of fluid 5ft. high is 2.25 lb/sq. in, how deep must the fluid be to exert a pressure of 9lb/sq. in? (pg 69)

Video Lecture Link: <https://www.youtube.com/watch?v=ndphuPjCgrU>

(10th AUG 2020 – 15th AUG 2020)

Day-1

Unit:4 PARTIAL FRACTIONS

Fraction:

The quotient of two numbers or algebraic expressions is called a fraction. The quotient is indicated by a bar (-). We write, the dividend above the bar and the divisor below the bar.

For example, $\frac{x^2+2}{x-2}$ is a fraction with $x - 2 \neq 0$, If $x - 2 = 0$, then the fraction is not defined because $x - 2 = 0 \Rightarrow x = 2$ which makes the denominator of the fraction zero. (pg 75)

a) Rational Fraction:

An expression of the form $\frac{N(x)}{D(x)}$, where N(x) and D(x) are polynomials in x with real coefficients and $D(x) \neq 0$, is called a rational fraction. (pg 75)

b) Proper Fraction:

A rational fraction $\frac{N(x)}{D(x)}$, with $D(x) \neq 0$ is called a proper fraction if degree of the polynomial N(x) in the numerator is less than the degree of the polynomial D(x) in the denominator are proper fractions. (pg 75)

c) Improper Fraction:

A rational fraction $\frac{N(x)}{D(x)}$, with $D(x) \neq 0$ is called an improper fraction if degree of the polynomial N(x) is greater or equal to the degree of the polynomial D(x) are Improper fractions. (pg 75)

Day-2

Q. Resolve into partial fractions.

i) $\frac{7x-9}{(x+1)(x-3)}$ (pg 78)

ii) $\frac{7x-25}{(x-4)(x-3)}$

iii) $\frac{x^2-2x+1}{(x-1)^2(x-2)}$

iv) $\frac{3x^2+15x+16}{(x+2)^2}$

Video Lecture Link: <https://www.youtube.com/watch?v=2y jyG0Ff65k>

Video Lecture Link: <https://www.youtube.com/watch?v=3NTIa-gNWE8>

Video Lecture Link: <https://www.youtube.com/watch?v=hOfGrwJhRg>

Day-3

Q. Resolve into partial fractions.

i) $\frac{3x-11}{(x+3)(x^2+1)}$

ii) $\frac{3x+7}{(x+3)(x^2+4)}$

iii) $\frac{x^4-3x^2+x+1}{(x+1)(x^2+1)^2}$

Video Lectures Link: <https://www.youtube.com/watch?v=z2-P4qgbNtY>

Video Lectures Link:

https://www.youtube.com/watch?v=ZBmVCmaWVU4&list=RDCMUcPlMtixZJ6pRcrMoqBSYvuQ&start_radio=1&t=50

Video Lectures Link: <https://www.youtube.com/watch?v=McHnS-S60-I>

(17th AUG 2020 – 22nd AUG 2020)

Day-1

Unit: 5 SETS AND FUNCTIONS:

SETS:

A set is a well-defined collection of objects and it is denoted by capital letters **A, B, C** etc. (pg 86)

Some Important Sets:

In set theory, we usually deal with the following sets of numbers denoted by standard symbols: (pg 86)

N = The set of natural numbers	= {1, 2, 3, 4, ... }
W = The set of whole numbers	= {0, 1, 2, 3, 4, ... }
Z = The set of all integers	= {0, ±1, ±2, ±3, ... }
E = The set of all even integers	= {0, ±2, ±4, ... }
O = The set of all odd integers	= {±1, ±3, ±5, ... }
P = The set of prime numbers	= {2, 3, 5, 7, 11, 13, 17, ... }
Q = The set of all rational numbers	= {x x = $\frac{m}{n}$, where m, n ∈ Z and n ≠ 0}
Q' = The set of all irrational numbers	= {x x ≠ $\frac{m}{n}$, ' where m, n ∈ Z and n ≠ 0}
R = The set of all real numbers	= Q ∪ Q'.

Video Lecture Link: https://www.youtube.com/watch?v=IK5tQ2_KptE

Day-2

a) Union of Sets:

The union of two sets **A** and **B** written as **A ∪ B** (read as **A union B**) is the set consisting of all the elements which are either in **A** or in **B** or in both thus: (pg 86)

$$A \cup B = \{x \mid x \in A \text{ or } x \in B \text{ or } x \in A \text{ and } B \text{ both}\}.$$

Q. If X = {1, 4, 7, 9} and Y = {2, 4, 5, 9} Then find: X ∪ Y (pg 87)

b) Intersection of Sets:

The intersection of two sets **A** and **B**, written as **A ∩ B** (read as '**A intersection B**') is the set consisting of all the common elements of **A** and **B** thus: (pg 86)

$$A \cap B = \{x \mid x \in A \text{ and } x \in B\}$$

Q. If X = {1, 4, 7, 9} and Y = {2, 4, 5, 9} Then find: X ∩ Y (pg 87)

Video Lecture Link: <https://www.youtube.com/watch?v=BI-iAp8ft4E>

Day-3

c) Difference of Sets:

If **A** and **B** are two sets, then their difference **A - B** or **A \ B** is defined as:

$$A - B = \{x \mid x \in A \text{ and } x \notin B\}$$

$$B - A = \{x \mid x \in B \text{ and } x \notin A\} \text{ (pg 86)}$$

Q. If X = { 2, 4, 6, ... , 20 } and Y = { 4, 8, 12, ... , 24 }, then find the following:

- (i) (X - Y)
- (ii) (Y - X) (pg 88)

d) Complement of a Set:

If **U** is a universal set and **A** is a subset of **U**, then the complement of **A** is the set of those elements of **U**, which are not contained in **A** and is denoted by **A̅** or **A^c**

$$\bar{A} = U - A = \{x \mid x \in U \text{ and } x \notin A\} \text{ (pg 87)}$$

Q. If X = { 2, 4, 6, ... } Y = { 4, 8, 12, ... } Find the value of:

- i) (X ∪ Y)'
- ii) (X' ∩ Y') (pg 88)

Video Lecture Link: <https://www.youtube.com/watch?v=9GYcFdAKu6o>

(24th AUG 2020 – 29th AUG 2020)

Day-1

Properties of Union and Intersection:

a) Commutative Property of Union: $A \cup B = B \cup A$

Q. If $X = \{1, 3, 5, 7, \dots, 19\}$, $Y = \{0, 2, 4, 6, 8, \dots, 20\}$
and $Z = \{2, 3, 5, 7, 11, 13, 17, 19, 23\}$
then find $X \cup (Y \cup Z)$ (pg 91)

b) Commutative Property of Intersection: $A \cap B = B \cap A$

Q. If $X = \{1, 3, 5, 7, \dots, 19\}$, $Y = \{0, 2, 4, 6, 8, \dots, 20\}$
and $Z = \{2, 3, 5, 7, 11, 13, 17, 19, 23\}$
then find $X \cap (Y \cap Z)$

c) Associative Property of Union: $(A \cup B) \cup C = A \cup (B \cup C)$

Q. If $A = \{1, 2, 3, 4, 5, 6\}$, $B = \{2, 4, 6, 8\}$, $C = \{1, 4, 8\}$
Prove that: $(A \cup B) \cup C = A \cup (B \cup C)$

d) Associative Property of Intersection: $(A \cap B) \cap C = A \cap (B \cap C)$

Q. If $A = \{1, 2, 3, 4, 5, 6\}$, $B = \{2, 4, 6, 8\}$, $C = \{1, 4, 8\}$
Prove that: $(A \cap B) \cap C = A \cap (B \cap C)$

Video Lecture Link: https://www.youtube.com/watch?v=BDTj_iTPzXE

Day-2

e) Distributive Property of Union Over Intersection: $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$

Q. If $A = \{1, 2, 3, 4, 5, 6\}$, $B = \{2, 4, 6, 8\}$, $C = \{1, 4, 8\}$
Prove that: $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$ (pg 91)

f) Distributive Property of Intersection Over Union: $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$

Q. If $A = \{1, 2, 3, 4, 5, 6\}$, $B = \{2, 4, 6, 8\}$, $C = \{1, 4, 8\}$
Prove that: $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$

g) De-Morgan's Laws: i) $(A \cup B)' = A' \cap B'$ ii) $(A \cap B)' = A' \cup B'$

Q. If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, $A = \{1, 3, 5, 7, 9\}$, $B = \{2, 3, 5, 7\}$, then verify the De-Morgan's Laws $(A \cup B)' = A' \cap B'$ **And** $(A \cap B)' = A' \cup B'$

Video Lecture Link: <https://www.youtube.com/watch?v=Y7Ggtxm3ULY>

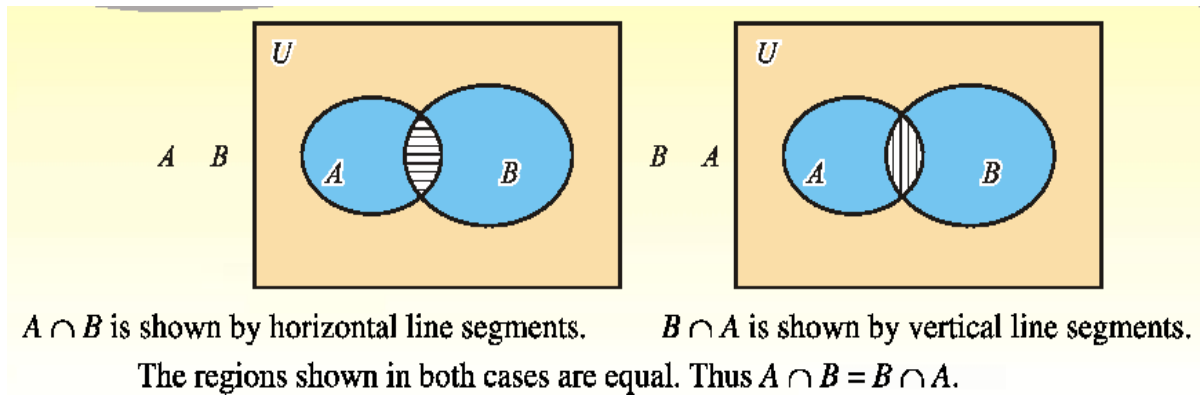
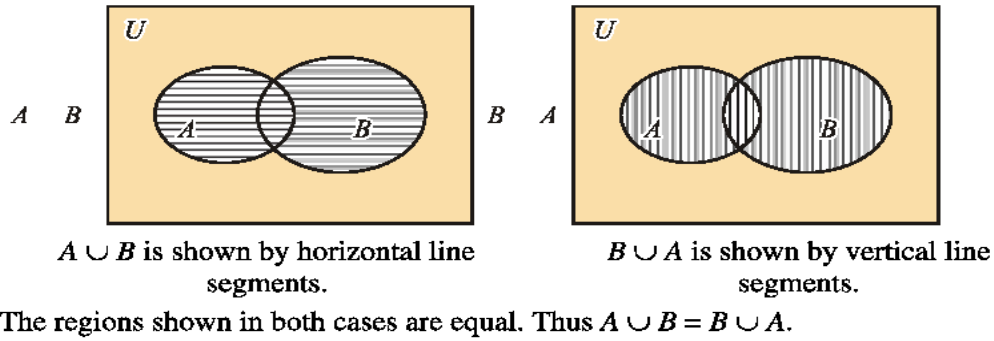
Day-3

VENN DIAGRAM

British mathematician **John Venn (1834 - 1923)** introduced rectangle for a universal set U and its subsets A and B as closed figures inside this rectangle. (pg 94)

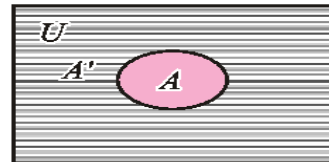
Use Venn Diagrams to Represent:

(a) Union and Intersection of Sets

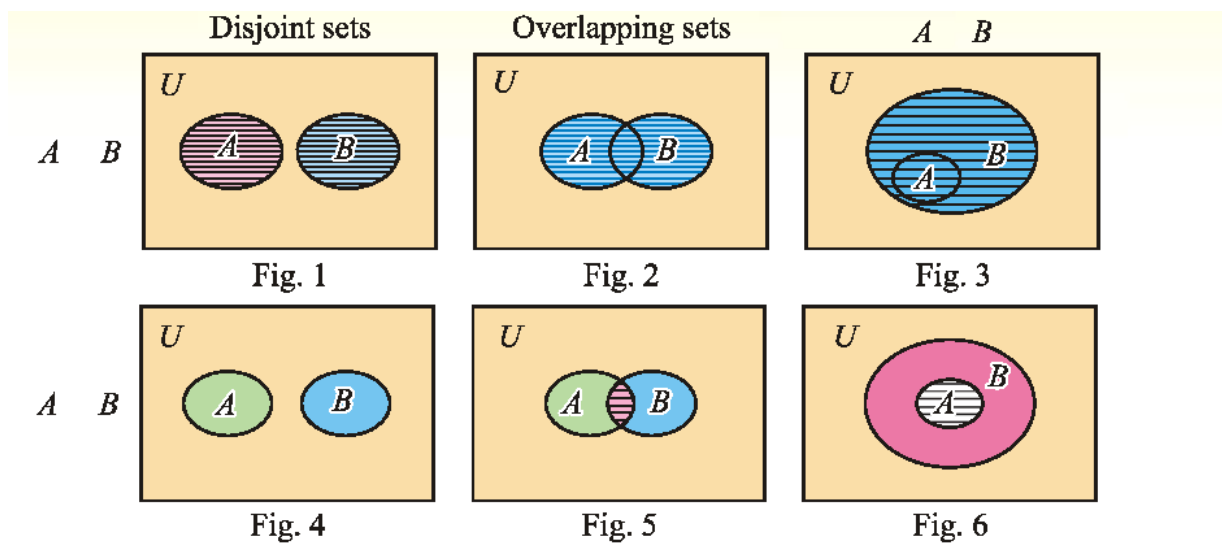


(b) Complement of a Set

$U - A = A'$ is shown by horizontal line segments.



Q. If $U = \{1,2,3,4, \dots, 10\}$; $A = \{1, 3, 5, 7, 9\}$; $B = \{1, 4, 7, 10\}$; $C = \{1, 5,8, 10\}$ then verify $(A \cup B) \cup C = A \cup (B \cup C)$



Video Lecture Link: <https://www.youtube.com/watch?v=-KECHBu0m6E>

Use Venn Diagram to Verify:

(a) Commutative Law for Union and Intersection of Sets:

Binary Relation:

If A and B are any two non-empty sets, then a subset $R \subseteq A \times B$ is called binary relation from set A into set B, because there exists some relationship between first and second element of each ordered pair in R. (pg 99)

(a) Domain of Relation: Denoted by Dom R is the set consisting of all the first elements of each ordered pair in the relation.

(b) **Range of Relation:** Denoted by Rang R is the set consisting of all the second elements of each ordered pair in the relation. (pg 99)

Function or Mapping:

Suppose A and B are two non-empty sets, then relation $f: A \rightarrow B$ is called a function if

(i) $\text{Dom } f = A$ (ii) every $x \in A$ appears in one and only one ordered pair in f

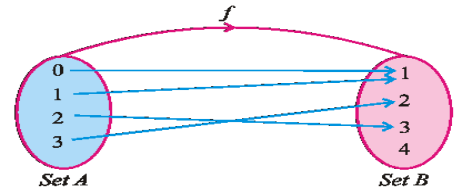
(a) Into Function:

A function $f: A \rightarrow B$ is called an into function, if at least one element in B is not an image of some element of set A i.e., Range of f is a subset of B .

For example, we define a function $f: A \rightarrow B$ such that

$$f = \{(0, 1), (1, 1), (2, 3), (3, 2)\}$$

where $A = \{0, 1, 2, 3\}$
and $B = \{1, 2, 3, 4\}$
 f is an into function.



(b) One-one Function:

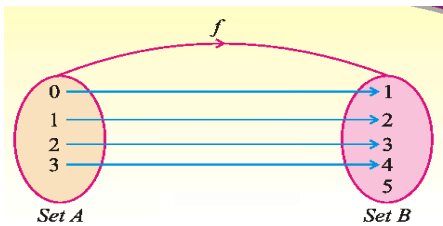
A function $f: A \rightarrow B$ is called one-one function, if all distinct elements of A have distinct images in B , i.e., $f(x_1) = f(x_2) \Rightarrow x_1 = x_2 \in A$ or $\forall x_1 \neq x_2 \in A \Rightarrow f(x_1) \neq f(x_2)$

For example, if $A = \{0, 1, 2, 3\}$ and $B = \{1, 2, 3, 4, 5\}$, then we define a function $f: A \rightarrow B$ such that

$$f = \{(x, y) \mid y = x + 1, \forall x \in A, y \in B\}$$

$$= \{(0, 1), (1, 2), (2, 3), (3, 4)\}$$

f is one-one function.



(c) Into and one-one Function: (injective function)

The function f discussed in (b) is also an into function. Thus f is an into and one-one function.

(d) An onto or Surjective Function:

A function $f: A \rightarrow B$ is called an onto function, if every element of set B is an image of at least one element of set A i.e., Range of $f = B$.

For example, if $A = \{0, 1, 2, 3\}$ and $B = \{1, 2, 3\}$, then $f: A \rightarrow B$ such that $f = \{(0, 1), (1, 2), (2, 3), (3, 2)\}$.

Here Rang $f = \{1, 2, 3\} = B$.

Thus f so defined is an onto function.

(e) Bijective Function or one to one Correspondence:

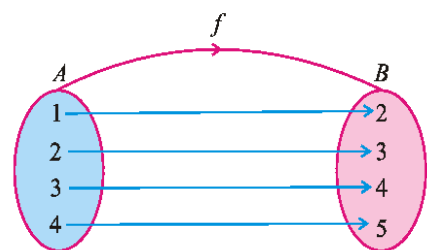
A function $f: A \rightarrow B$ is called bijective function if f function is one-one and onto.

For example, if $A = \{1, 2, 3, 4\}$ and $B = \{2, 3, 4, 5\}$

We define a function $f: A \rightarrow B$ such that

$$f = \{(x, y) \mid y = x + 1, \forall x \in A, y \in B\}$$

Then $f = \{(1, 2), (2, 3), (3, 4), (4, 5)\}$



Evidently this function is one-one because distinct elements of A have distinct images in B . This is an onto function also because every element of B is the image of at least one element of A .

Q. If $Y = \{-2, 1, 2\}$, then make two binary relations for $Y \times Y$. Also find their domain and range.

Q. If set M has 5 elements, then find the number of binary relations in M . (pg 102)

Video Lecture Link: <https://www.youtube.com/watch?v=wSjtwP5GwN8>

Chemistry

(20th July-25th July 2020)

Day 1

Topic: Organic Chemistry (pg no 46)

Video Lecture Links:

- <https://www.youtube.com/watch?v=UTTRKBe4haw>
- <https://www.youtube.com/watch?v=CYmW1A2W5zo>

Tasks:

Q: Answer the Following Questions:

1. What do you know about Isomerism?
2. What is the composition of organic compounds?
3. What is condensed structural formula?
4. What are the saturated and unsaturated hydrocarbons?
5. How many types of unsaturated hydrocarbons?

Q: Choose saturated and unsaturated Compounds.

- | | |
|---|--|
| (i) $\text{CH}_3\text{-CH}_2\text{-CH}_3$ | (ii) $\text{CH}_3\text{-C}\equiv\text{CH}$ |
| (iii) $\text{CH}_3\text{-CH=CH}_2$ | (iv) $\text{CH}_2\text{=CH-CH=CH}_2$ |

Q: Write the IUPAC names of the Followings:

1. $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3$
2. $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3$
3. $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3$
4. $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3$
5. $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3$

Day 2

Topic: Classification of Organic Compounds (pg no 57)

Video lecture link:

- <https://www.youtube.com/watch?v=VoU92OHggfo>
- <https://www.youtube.com/watch?v=-C4gDOFAEhs>

Tasks:

Q: Answer the following Questions: -

- (i) How many groups of organic compounds?

- (ii) Draw the structure of neo-Pentane?
- (iii) Give the suitable examples of cyclic compounds?
- (iv) Draw the structural formula of two straight chain compounds?

Q: Define functional group and name some common functional groups.

Q: Draw the functional group, which are containing Halogens.

Day 3

Topic: Functional Groups (pg no 59)

Video lecture link:

- <https://www.youtube.com/watch?v=zDgk4GJA0Y0>
- <https://www.youtube.com/watch?v=-C4gDOFAEhs>

Tasks:

Q: Answer the following questions: -

- (i) Draw the functional groups containing oxygen and hydrogen Alcohols.

- (ii) What is the difference between Phenols and Ethers?

- (iii) Draw the functional formula of Aldehyde and Ketones?

- (iv) What are the Carboxylic Acids?

- (v) What are Esters? Also explain Amine

Q: Functional group worksheet.

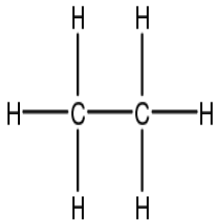
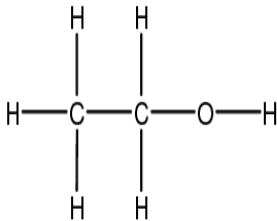
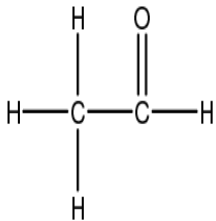
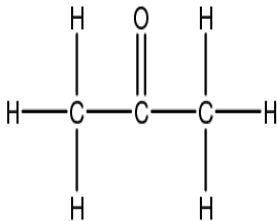
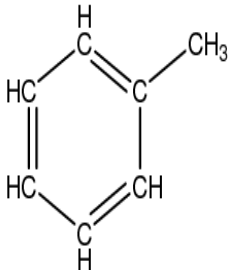
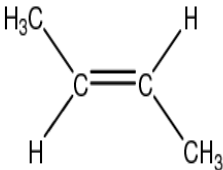
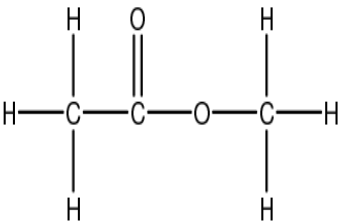
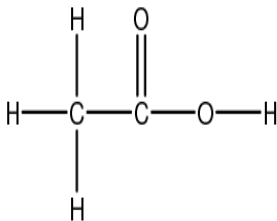
Name _____

Period _____

Alkane Functional Groups – Worksheet #1

Classify the following compounds according to their functional group(s). You do not need to name the compounds. Choose from the following list:

Alcohol, Aldehyde, Alkane, Alkene, Alkyne, Amine, Aromatic, Carboxylic Acid, Ester, Ether, or Ketone

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

Worksheet 02:

Chemistry II

Worksheet 6-2

Organic Functional Groups

Name _____

Period _____

Give the functional group and give the IUPAC name for each organic compound.

	<u>FUNCTIONAL GROUP</u>	<u>IUPAC NAME</u>
1. $\text{CH}_3 - \text{CH} - \text{CH}_2 - \text{CH}_3$	_____	_____
2. $\text{CH}_3 - \text{C} - \text{CH}_2 - \text{CH} - \text{CH}_3$	_____	_____
3. $\text{CH}_3 - \text{C} - \text{H}$	_____	_____
4. $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{C} - \text{OH}$	_____	_____
5. $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{C} - \text{CH}_2 - \text{CH}_3$	_____	_____
6. $\text{CH}_3 - \text{C} - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{NH}_2$	_____	_____
7. $\text{CH}_3 - \text{CH}_2 - \text{O} - \text{CH}_3$	_____	_____
8. $\begin{array}{c} \text{CH}_3 - \text{CH} - \text{C} - \text{NH}_2 \\ \\ \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_3 \end{array}$	_____	_____
9. $\text{CH}_3 - \text{CH} = \text{C} - \text{CH} - \text{CH} - \text{CH}_3$	_____	_____
10. $\text{CH}_3 - \text{C} - \text{O} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$	_____	_____
11. $\text{CH}_3 - \text{C} = \text{C} - \text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$	_____	_____

(27th July- 01st Aug 2020)

Day 1

Topic: Hydrocarbons (pg no 72)

Video lecture links:

- <https://www.youtube.com/watch?v=WiEhLTVUvU4>
- https://www.youtube.com/watch?v=c6mVGW_Pszo
- <https://www.youtube.com/watch?v=j5SkuMcyRis>
- <https://www.youtube.com/watch?v=N1ydUezpgfl>

Tasks:

Q: Answer the Following Questions: -

- (i) What are Hydrocarbons?
- (ii) Alkanes are saturated Hydrocarbons. Discuss.
- (iii) Write the structural formula of Butane and Pentane
- (iv) Draw the electron dot or cross dot structure of ethane?
- (v) What are the general methods of Preparation of Alkanes?
- (vi) Write down the properties of Alkanes?

Q: Write down the chemical reactions of Alkanes:

Q: Solve the worksheet:

Topic – Crude Oils and Fuels - 4.1

Consumable

Pupil Task

ALKANES

Complete the table..

Name	Molecular Formula	Number of carbons	Number of hydrogens	Structural formula
Methane	CH ₄	1	4	
Ethane			6	
Propane	C ₃ H ₈			
Butane		4		
Pentane				
Hexane				

Extension - Using the table and the the general formula for alkanes C_nH_{2n+2}

How many hydrogen in C₁₁H_{...} and C₁₂H_{...}

For hexane and pentane can you come up with any different structures?

Day 2

Topic: Alkenes (pg no 78)

Video lecture links:

- <https://www.youtube.com/watch?v=ulVmOOkv1qQ>
- <https://www.youtube.com/watch?v=-uSag2cxUO8>
- <https://www.youtube.com/watch?v=Aa9Gj6EhNcE>

Tasks:

Q: Answer the following Questions: -

- (a) What is used for the manufacturing of polythene?

- (b) What is the general formula of Alkenes?
 (c) Draw Structural formula for the following compounds.
- 1-Pentene
 - 2-Pentene
- (d) Define Dehydration.
 (e) How the dehydration of Alcohols is used for the preparation of Alkenes?
 (f) Write down the chemical reaction of dehydrohalogenationS of alkyl halides?
 (g) Write down any two chemical reactions of Alkenes?

Q: Solve the following worksheet:

Hint: 1 carbon = "meth-" 2 carbons = "eth-" 3 carbons = "prop-"

Structure	Alkane, Alkene, Alcohol or other?	*Name
$\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{H} \\ \\ \text{H} \end{array}$		
		Ethene
$\begin{array}{ccccccc} & \text{H} & \text{H} & \text{H} & & & \\ & & & & & & \\ \text{H} & -\text{C} & -\text{C} & -\text{C} & -\text{O} & -\text{H} \\ & & & & & & \\ & \text{H} & \text{H} & \text{H} & & & \end{array}$		
$\begin{array}{ccccccc} & \text{H} & & \text{H} & & \text{H} & \\ & & & & & & \\ \text{H} & -\text{C} & = & \text{C} & - & \text{C} & -\text{H} \\ & & & & & & \\ & & & & & \text{H} & \end{array}$		
$\begin{array}{ccc} \text{H} & & \text{Cl} \\ & \diagdown & / \\ & \text{C} = \text{C} & \\ & / & \diagdown \\ \text{H} & & \text{H} \end{array}$		Chloroethene
		Poly(chloroethene)
$\begin{array}{ccccccc} & \text{H} & \text{H} & \text{H} & & & \\ & & & & & & \\ \text{H} & -\text{C} & -\text{C} & -\text{C} & -\text{H} \\ & & & & & & \\ & \text{H} & \text{H} & \text{H} & & & \end{array}$		

Q: Write down the Chemical reactions of Alkenes.

- (a) Reaction with Halogens
 (b) Reaction with KMnO_4

Day 3

Topic: Alkynes (pg no 82)

Video Lecture Links:

- <https://www.youtube.com/watch?v=rkr3Q62NY3w>
- <https://www.youtube.com/watch?v=BMRsxx-tF1w>
- <https://www.youtube.com/watch?v=MPj0A7BQoZQ>

Tasks:

Q: Answer the following Questions: -

- What do you know about Alkynes?
- Write the general formula of Alkynes?
- What are the General Methods of Preparation of Alkynes?
- What are the Properties of Alkynes?
- Write Chemical Reaction of ethyne and bromine?

Q: Complete the following reactions:



(3rd Aug-8th Aug 2020)

Day 1

Topic: Carbohydrates (pg no 91)

Video lecture links:

- <https://www.youtube.com/watch?v=HAEIqx-C9iM>
- <https://www.youtube.com/watch?v=nLKypjmRa9g>
- <https://www.youtube.com/watch?v=0DhxZDnloqA>
- <https://www.youtube.com/watch?v=T0AATGDHih8>

Tasks:

Q: Answer the following Questions: -

- What do you know about Carbohydrates? Give the general formula.
- What is meant by Dextrose?
- What are the beneficial aspects of Carbohydrates?
- What is meant by Glucose and Fructose?
- Describe hydrolysis of Sucrose?
- Write Sources of simple Sugars.

Q: Fill in the blanks.

- Disaccharide such asis obtained in sugarcane.
-is present in cereals, wheat, barley, rice, maize, potato, and sweet potato.
- Sucrose is used as common

Q: List down:

- Three examples of monosaccharides
- Three examples of Disaccharides
- One example of trisaccharides
- Two examples of polysaccharides

Q: List Sources of:

- Sucrose
- Maltose
- Lactose

Activity:

CARBOHYDRATES

1. Why do we eat carbohydrates? (What is the function?)

2. What are the three groups of carbohydrates?

- i) _____
- ii) _____
- iii) _____



3. List sources of carbohydrates

	i) _____
	ii) _____
	i) _____
	ii) _____
	i) _____
	ii) _____

4. Make a list of any carbohydrate foods you ate yesterday.

Day 2

Topic: Nucleic Acids (pg no 100)

Video lecture links:

- <https://www.youtube.com/watch?v=cEPrOvTuAaw>
- <https://www.youtube.com/watch?v=j2ghx9NIO9E>

- <https://www.youtube.com/watch?v=RQYNaiHlui4>

Tasks:

Q: Answer the following Questions: (by the help of diagram)

- What are Nucleic Acids? How many types of Nucleic acid are?
- Name components of nucleotides in DNA?
- What is the function of DNA?
- Why RNA is called a messenger?
- What is meant by RNA? What is its function?
- Write down the main differences between DNA and RNA?
- Draw the Diagram of DNA and RNA.
- What is sugar unit in DNA?
- Which nucleic Acid is involved in Protein Synthesis?

DNA vs RNA- these 2 molecules are important in protein synthesis

	RNA	DNA
Stands for	Ribonucleic acid	Deoxyribonucleic acid
# of strands	1 (see below)	2
Nitrogen Bases present	Adenine, guanine, cytosine and uracil	Adenine, guanine, cytosine and thymine
Functions	1. transfer genetic code out of nucleus. 2. translate genetic code into proteins (chain of amino acids)	Stores genetic information which controls cell functions
Where is it found?	Nucleus and outside nucleus	Inside nucleus only
Major types	1. mRNA - messenger RNA 2. tRNA - transfer RNA 3. rRNA - ribosomal RNA	N/A
Sketch of molecule:	<p> ■ Adenine ■ Guanine ■ Uracil ■ Cytosine P= phosphate R= Ribose </p>	<p> ■ Thymine ■ Adenine ■ Guanine ■ Cytosine D = Deoxyribose (sugar) P = Phosphate . . . Hydrogen Bond </p>

Day 3

Vitamins (pg no 101)

Video Lecture links:

- <https://www.youtube.com/watch?v=CRmHthWF1Xc>
- <https://www.youtube.com/watch?v=Rr5in8gWOZY>
- <https://www.youtube.com/watch?v=BrugN2DmDMM>

Tasks:

Q: Answer the following Questions: -

1. What are Vitamins? How many types of Vitamins are?
2. Is Vitamin C soluble in fat or in water?
3. Give examples of fat soluble Vitamins?
4. What is the role of Vitamin D in our body?
5. Write any two diseases caused by the deficiency of Vitamin A?
6. What are the Sources of Vitamin A?
7. Why the Vitamins are necessary for us?

Q: Write a short note on water soluble Vitamins.

Q: Write brief history of Vitamins?

(10th Aug 2020 – 15th Aug 2020)

Day 1

Topic: Atmosphere (pg no 108)

Video lecture links:

- <https://www.youtube.com/watch?v=jdm0OLAVp1I>
- <https://www.youtube.com/watch?v=qWZj8FUZ0Zo>

Tasks:

Q: Answer the following Questions: -

1. Define Atmosphere.
2. What two gases make up most of the air?
3. What is the composition of the Atmosphere?
4. Which gas has lowest percentage in the Air?
5. How many layers of the Atmosphere?

Q: Write a short note on Stratosphere

Activity:

1. Describe how Temperature changes as one move from earth's surface into the Atmosphere up to 50km?
2. Shows how the Temperature changes with the altitude?
3. Solve the worksheet:

Instructions: Cut out the layers of the atmosphere table and glue them on the master table that says 'Layers of the Atmosphere'. Then, sign the top flap with your name and in correct order based on distance from the Earth's surface. Fill in the distance on the front and write 1-2 pieces of information from the text under each layer. (Use any additional information your teacher instructs and respond to the writing prompt.)

Layers of the Atmosphere Air pressure as altitude increases	Exosphere Distance from surface: _____
	Thermosphere Distance from surface: _____
	Mesosphere Distance from surface: _____
	Stratosphere Distance from surface: _____
	Troposphere Distance from surface: _____

Write the layer's temperature change, height, and distance from surface.

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Day 2

Topic: Air Pollutants (pg no 112)

Video lecture links:

- <https://www.youtube.com/watch?v=fScirMjvCsQ>
- <https://www.youtube.com/watch?v=vg-tlzHYrwU>
- <https://www.youtube.com/watch?v=sQYAOziCIV8>

Tasks:


Q: Answer the following Questions: -

1. What are the pollutants?
2. List some effects of Sulphur dioxide on human beings?
3. List some of the Air Pollutants
4. Write the names of the main pollutants in the air?
5. What is the role of Ozone layer in the Pollution?
6. What are the natural resources of the air pollution?



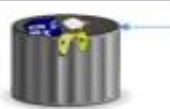









Activity:

1. Write down the short note on the Human activities which are responsible for the air pollution?
2. List main sources of the following air pollutants?
 1. SO₂
 2. CO
 3. NO₃

3. Worksheet:



Pollution

 air pollution	 smoke	 rubbish/trash	 factory
 recycle	 die	 earth/world	 water pollution
 lungs	 dangerous	 (to) care/ help/ look after / protect	 noise pollution

Read the questions below and discuss the answers with your friends/ parents/ teachers.

1. What is pollution?
2. What can cause air pollution / water pollution / noise pollution?
3. What problems are caused by air pollution / water pollution / noise pollution?
4. Explain the word 'recycle'.
5. How can recycling help our earth?
6. How can we protect our world?

Day 3

Topic: Global Warming (pg no 116)

Video lecture links:

- https://www.youtube.com/watch?v=RS_4Qsv1fLA
- <https://www.youtube.com/watch?v=DgaFDqv2xOs>
- <https://www.youtube.com/watch?v=S4ZarjWjsdl>

Tasks:

Q: Answer the following Questions:

1. Define Global Warming?
2. List some effects of Global warming.
3. List some substances that are responsible for Global Warming?
4. Write a short note on Acid Rain and its effect.
5. Write names of gases that cause Acid Rain
6. What do you know about ozone Depletion?

Activity:

- Write a short note on the global warming in this modern world.
- Find out vocabulary words given in the worksheet of Global Warming.



(17th Aug 2020- 22nd Aug 2020)

Day 1

Revision of important topics (pg no 7-14)

Video lecture link:

<https://www.youtube.com/watch?v=oiEvZaaPepQ>

Tasks:

- Write microscopic characteristics of forward and reverse reactions.
- State law of mass action and derive the expression for equilibrium constant.

Day 2

Topic: Think Tank (pg no 19)

- Bromine chloride (BrCl) decomposes to form chlorine and bromine. For this reaction write:
 1. Chemical equation
 2. Kc expression
 3. Units of Kc
- What is the importance of equilibrium constant for a chemical reaction?
- Define Equilibrium Constant also derive its units.
- Differentiate between reactants and products.

Day 3

Acid bases and salts

Topic: Arrhenius Concept (pg no 21)

Video lecture links:

- <https://www.youtube.com/watch?v=DLDbldAHAGA>
- <https://www.youtube.com/watch?v=7nBVmthBxnE>

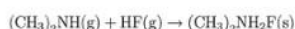
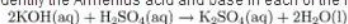
Tasks:

- Define an acid and a base according to the Arrhenius Concept with the help of examples.
- Write down the limitations of Arrhenius Concept

Activity:

- Draw a table and write down the uses and properties of acids and bases
- Solve the worksheet.

Using the Arrhenius concept of acids and bases, identify the Arrhenius acid and base in each of the following reactions:



Drag the appropriate items to their respective bins.

The interface shows a drag-and-drop activity. At the top, there are four draggable boxes containing the chemical formulas: KOH, H₂SO₄, (CH₃)₂NH, and HF. Below these are three bins labeled "Arrhenius acid", "Arrhenius base", and "Neither". At the bottom right of the bins are "reset" and "help" buttons. At the bottom left are "Submit", "Hints", "My Answers", "Give Up", and "Review Part" buttons.

24th Aug 2020 - 29th Aug 2020

Day 1

Topic: Self-Ionization of water (pg no 26)

Video lecture links:

- <https://www.youtube.com/watch?v=oKZBQfdZWic>
- <https://www.youtube.com/watch?v=Kz1oyPAPIM4>

Tasks:

- A soft drink has $[H]=3 \times 10^{-3}$ M. Is drink acidic basic or natural?
- Ordinary Vinegar is approximately 1M CH_3COOH . Concentration of H^- in it is 4.2×10^{-3} M. Is vinegar is acidic basic or neutral?
- Write names of three acid-base indicators.
- What is the pH of this solution if it is highly basic?

Activity:

pH

- ▶ Complete the pH worksheet, cutting out the examples and sticking them in. Make sure you colour your pH scale the appropriate colour

pH Scale

pH		
ACID	1	rain water pH 6
	2	water pH 7
	3	car battery acid pH 1
	4	oven cleaner pH 12
	5	lemon juice pH 4
	6	vinegar pH 4
NEUTRAL	7	sodium hydroxide pH 13
ALKALI	8	ammonium hydroxide pH 13
	9	cola drink pH 6
	10	washing up liquid pH 8
	11	salt pH 7
	12	citric acid pH 6
	13	
	14	



Day 2

Topic: Indicators (pg no 31)

Video lecture links:

- <https://www.youtube.com/watch?v=gW0uU3-0Aw0>
- <https://www.youtube.com/watch?v=4Zq13W-0IU4>
- <https://www.youtube.com/watch?v=dpjWqLDq2FQ>

Tasks:

Q: Write a short note on the followings:

- (a) Indicators
- (b) Natural indicators
- (c) pH meter

Q: Draw a table for these indicators in different solutions (Acidic basic and Neutral)

- (a) Methyl Orange
- (b) Litmus paper
- (c) Phenolphthalein

Day 3

Topic: Salts (pg no 34)

Video lecture links:

- <https://www.youtube.com/watch?v=5QBOY1yHTKk>
- <https://www.youtube.com/watch?v=glgADaTNVOK>
- <https://www.youtube.com/watch?v=zFuT8Np3Tfw>
- <https://www.youtube.com/watch?v=-UvjSAuncL4>
- https://www.youtube.com/watch?v=Lh43_6LYNJA
- <https://www.youtube.com/watch?v=nsR7oHZfQNk>
- <https://www.youtube.com/watch?v=vXGGwGFU8bA>

Tasks:

- What are salts? How many types of salts are present?
- Draw a table to differentiate between Acidic basic and Natural salts.
- Write down the names of some metals which are reacting with acids to make salts.
- Write down the methods of the preparation of salts.
- What do know about Double Salts?
- Write down the uses of Salts.

Activity:

- Explain the Stomach Acidity.
- Describe Preservatives in food
- Explain the importance of salt in industry.

BIOLOGY

(20th Jul 2020-25th Jul 2020)

Unit 12: Coordination and Control

Topic/s 12.3 Receptors in Humans

Text book Reading

- Read the receptors in humans given on pg. no 41-47. It describes receptors of human in detail. It includes physiology and pathology of Eye and Ear.

Written work

- Solve short question provided in the exercise of the textbook. Also practice sketching neat label diagrams included in above mentioned topics pg. 43

Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests

- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.3&v=b-coord-cont-53a>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.3&v=b-coord-cont-53b>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.3&v=b-coord-cont-55>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.3&v=b-coord-cont-56>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.3&v=b-coord-cont-57>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.3&v=b-coord-cont-58>

Day 1:

Receptors in Humans

Additional Short-Questions:

- What is receptor?
- What are the examples of receptors in humans

Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-coordination-control-notes/>



Written work:

- Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg. 43

Day 2:-

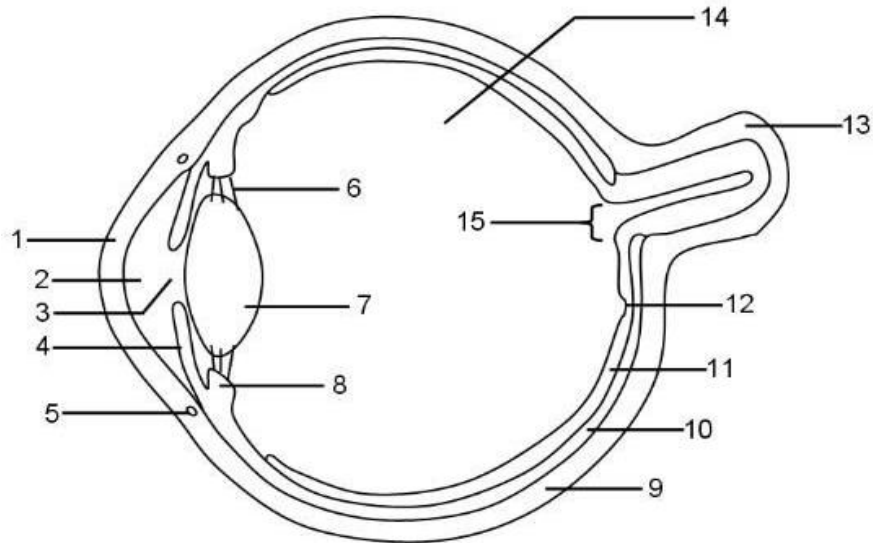
Topic: Structure and Physiology of Eye

Additional Short-Questions:

- Give neat labeled diagram of Eye

Web organizer/Flowsheets key points with diagrams:-

Structure and Physiology of Eye



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-coordination-control-notes/>

- Solve the long questions in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topic
- Question no 04 and 06 pg. 54 Answer on pg. no 42-43 and 44

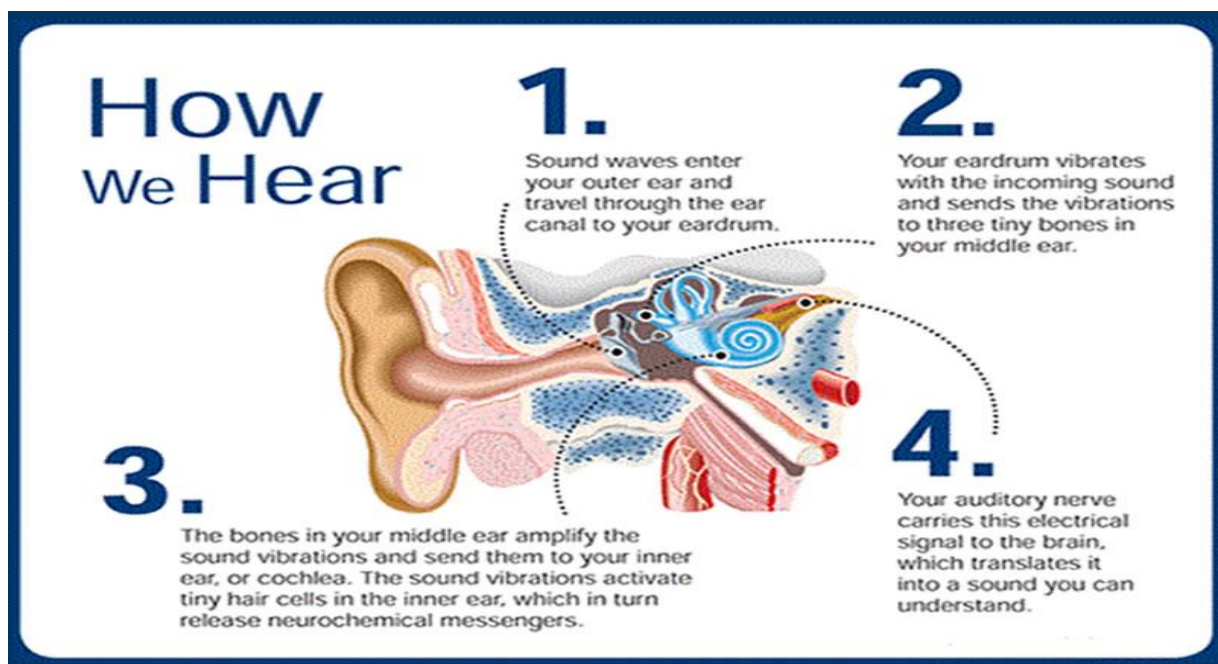
Day 3:

Topic: Structure and function of Ear

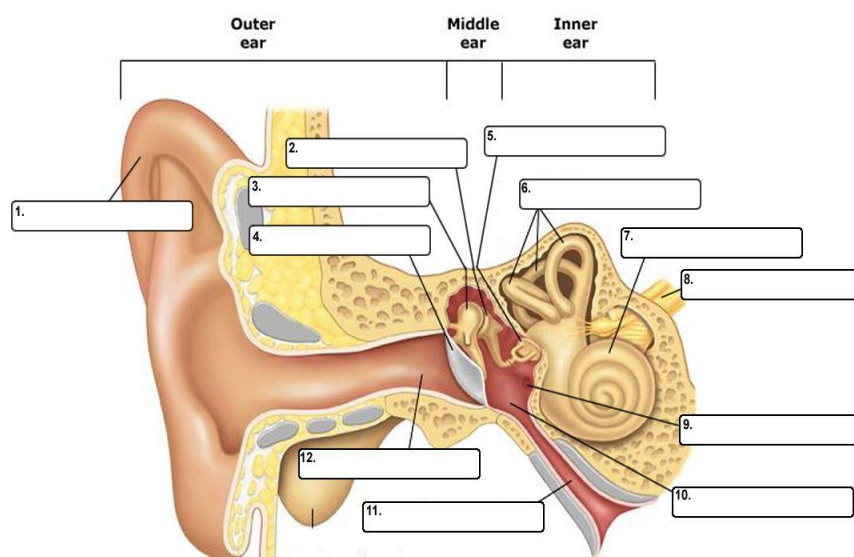
Additional Short-Questions:

- Give neat and labeled diagram of ear.
- Explain the process of hearing.

Web organizer/Flowsheets key points with diagrams:-



- Ears maintain the balance of body



Notes/self-assessment/Daily link:-

<https://classnotes.xyz/class-10-notes-biology-coordination-control-notes/>

(27th JULY 2020 – 1st AUG 2020)

Unit 12.4: Endocrine System

Topic/s: 12.4.1 Imported Endocrine Glands, Disorders of Nervous System

Text Book Reading:

Read Endocrine system, given on pg. no 47-51. It describes endocrine system and function and location of endocrine glands.

Read disorders of nervous system given on pg. no 51-52

These links explain the concepts in an enlightening manner.

- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.4&v=b-coord-cont-63>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.4&v=b-coord-cont-64>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.4&v=b-coord-cont-67>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.4&v=b-coord-cont-68>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.4&v=b-coord-cont-70>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.4&v=b-coord-cont-77>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-3.5&v=b-coord-cont-88>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics. Question on pg. no 54 and answer is on pg. no 47. Long Questions no. 9,10,11,12 on pg. no. 54 answers on pg. no. 48-52.

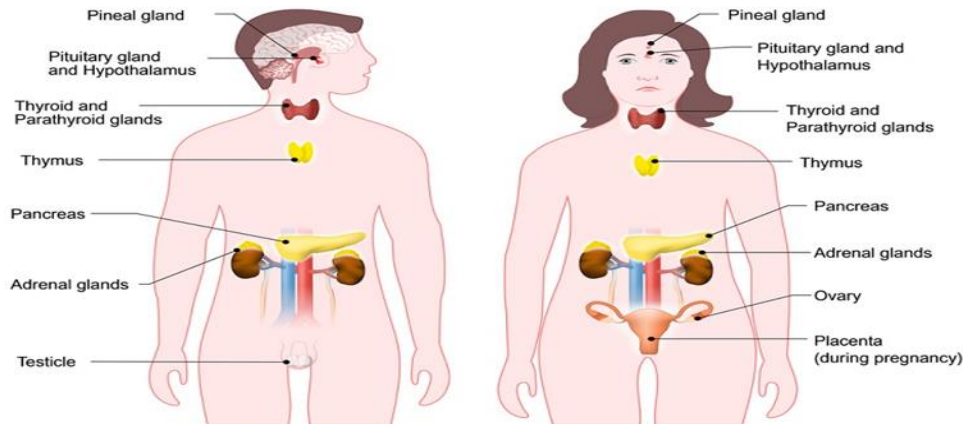
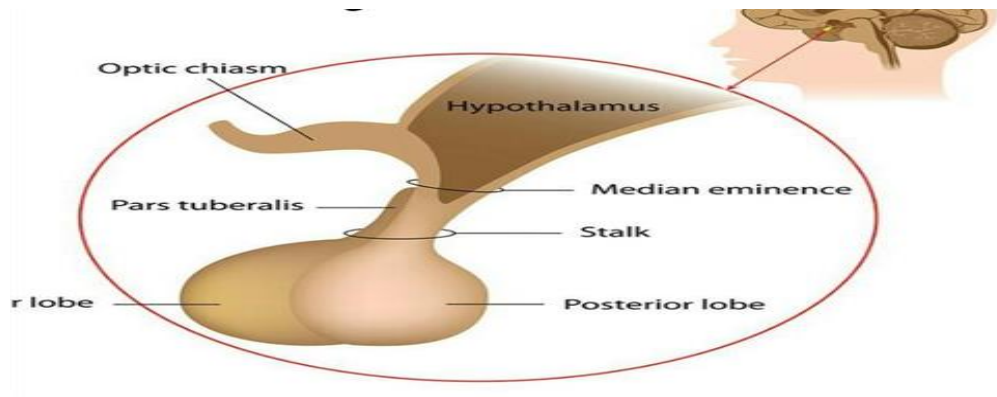
Day 1:-

Topic: Endocrine System

Additional Short-Questions:

- Define hormone.
- Outline the functions of hormones of pituitary gland.

Web organizer/Flowsheets key points with diagrams:-



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-coordination-control-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 47-49.

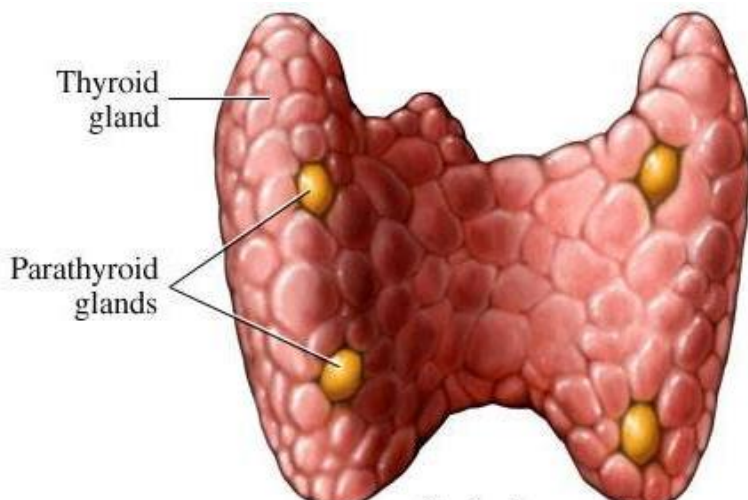
Day 2:

Topic: Parathyroid glands, Adrenal Glands, Pancreas, Gonads

Additional Short-Questions:

- Define the parts and hormones of adrenal glands
- Explain the rule of insulin in regulation of blood glucose.

Web organizer/Flowsheets key points with diagrams:-



Notes/self-assessment/Daily link:

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-coordination-control-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 47-50

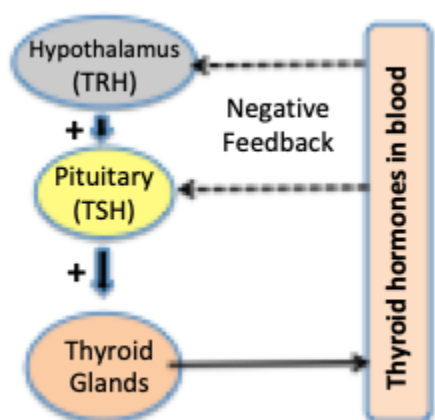
Day 3:-

Topic: Feedback Mechanisms, Disorders of Nervous System

Additional Short-Questions:

- Define feedback mechanism with example.

Web organizer/Flowsheets key points with diagrams:-



Notes/self-assessment/Daily link:

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-coordination-control-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 50-52.

(3rd AUG 2020 - 8th AUG 2020)

Unit 13: Support and Movement

Topics/s: 13.1 Human Skeleton, 13.2 Types of Joints, 13.3 Muscles and Movement 13.4 Disorders of Skeleton System

Text Book Reading:-

Read human skeleton given on pg. no 57-61. It describes the role of skeleton and composition of bones. It also explain the components of human skeleton.

These links explain the concepts in an enlightening manner.

- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-4.1&v=b-supp-move-24>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-4.1&v=b-supp-move-32b>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-4.1&v=b-supp-move-26>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-4.1&v=b-supp-move-27>

- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-4.2&v=b-supp-move-28>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-4.2&v=b-supp-move-55>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-4.3&v=b-supp-move-38>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics on pg. no 57-65. Long questions no 1,2,3,4 on pg. no 67 and answers are on pg. no 60, 62 and 63.

Day 1:

Topic: Human Skeleton

Additional Short-Questions:

- Write the difference between endoskeleton and exoskeleton.
- Define the total number of bones in an adult and in new born baby's body

Web organizer/Flow sheets key points with diagrams:-

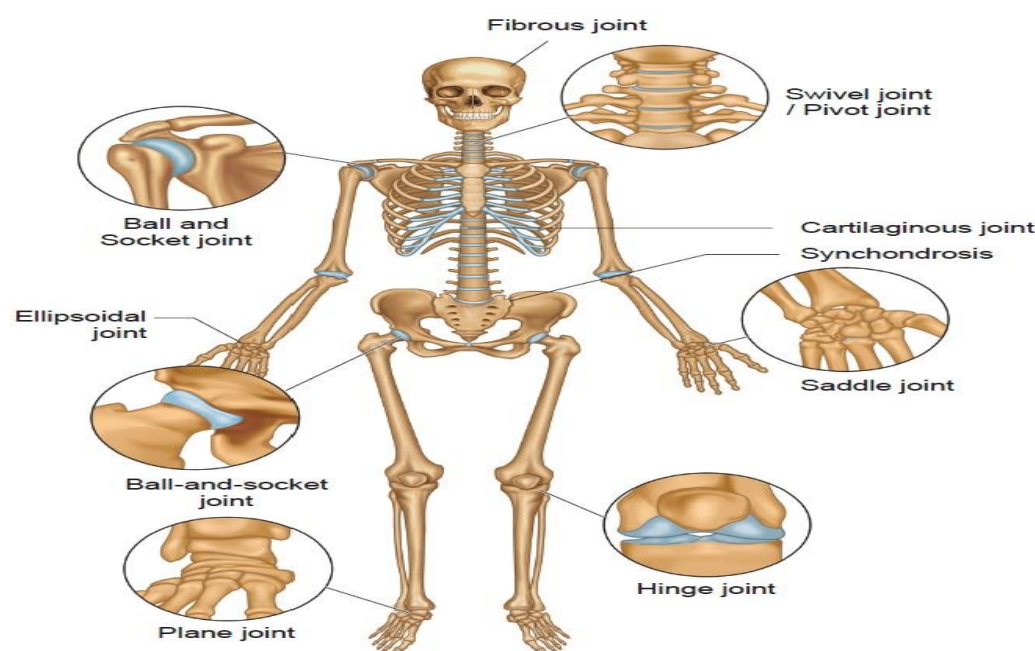


Figure 9. 13 Types of joints

Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-support-movement-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 57-59

Day 2:

Topic: Components of Human Skeleton, Types of Joints

Additional Short-Questions:

- Write the difference ball-socket and slightly moveable joints

Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-support-movement-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 60-63

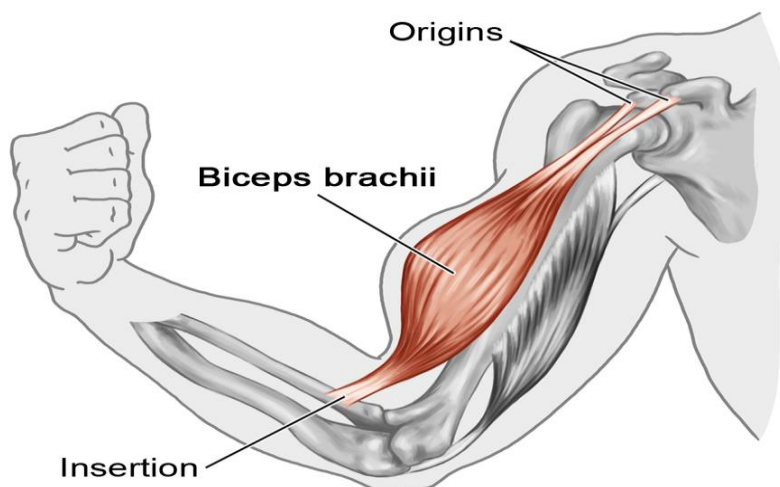
Day 3:-

Topic: Muscles and Movement, Disorders of Skeleton System

Additional Short-Questions:

- How would you define origin and insertion in muscles
- Define Rheumatoid arthritis.

Web organizer/Flow sheets key points with diagrams:-



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-support-movement-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 63-65.

(10th AUG 2020 - 15th AUG 2020)

Unit 14: Reproduction

Topic/s: 14.1 Reproductions, 14.2 Methods of Asexual Reproduction

Text Book Reading:-

Read reproduction given on pg. no 70. It describes the definition and importance of reproduction.

It also explain the methods of asexual reproduction on pg. no 70-77.

These links explain the concepts in an enlightening manner.

- <https://sabaq.pk/chapter-page.php?vg=federal-biology-10th&vsg=federal-biology-10th-14>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics on pg. no 74-76. Long questions no 1, 2 on pg. no 92 and answers are on pg. no 70-74.

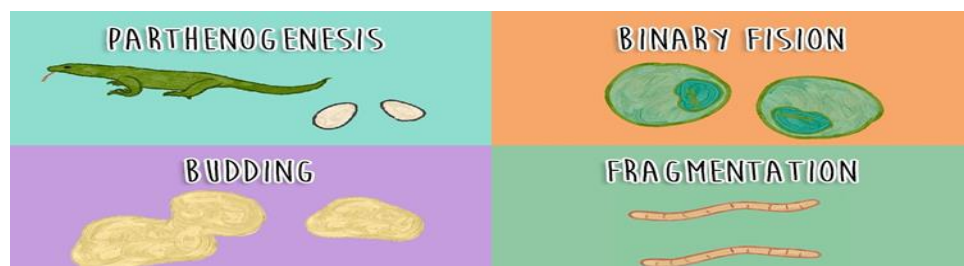
Day 1:

Topic: Reproduction, Methods of Asexual Reproduction

Additional Short-Questions:

- Describe Multiple Fission.
- Explain the Importance of reproduction.

Web organizer/Flow sheets key points with diagrams:-



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-reproduction-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 70-73.

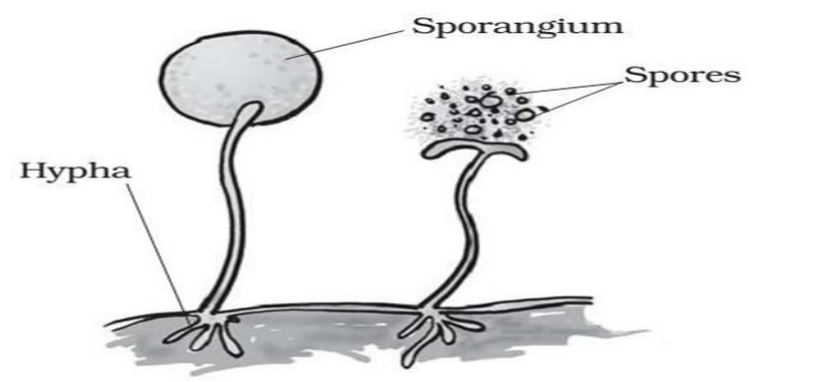
Day 2:

Topic: Spore Formation, Parthenogenesis, Vegetative Propagation

Additional Short-Questions:

- How would you define Sporangia?
- Name the vegetative Parts of plant.

Web organizer/Flowsheets key points with diagrams:-



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-reproduction-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 49-51.

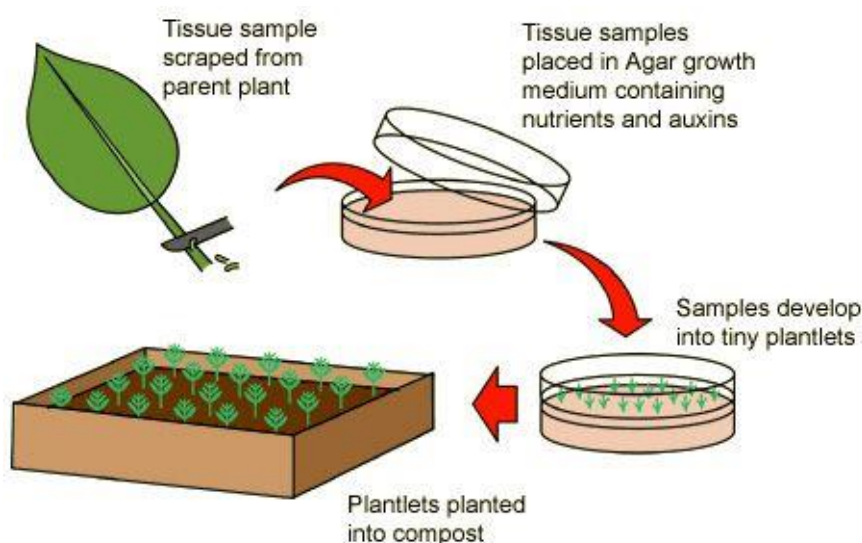
Day 3:

Topic: Artificial vegetative propagation, Tissue Culture and Cloning

Additional Short-Questions:

- What methods are used in vegetative propagation?
- Define micro propagation.
- What are calluses?

Web organizer/Flow sheets key points with diagrams:-



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-reproduction-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 76-78.

(17th AUG 2020 – 22nd AUG 2020)

Unit 14: Reproduction

Topic/s: 14.3 Sexual Reproduction in Plants, 14.4 Sexual Reproduction in Animals

Text Book Reading:-

Read sexual reproduction in plants given on pg. no 78. It describes production of gametes, their fusion and fertilization. It also explain pollination, its types, development and germination of seed on pg. no 80-84.

Read sexual reproduction in animals given on pg. no 84 it involves formation and fusion of male and female gametes.

AID: Sexually transmitted diseases given on pg. no 89.

These links explain the concepts in an enlightening manner.

- <https://sabaq.pk/chapter-page.php?vg=federal-biology-10th&vsg=federal-biology-10th-14>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics on pg. no 78-90. Long questions no 3, 4, 5,6,7,8 on pg. no 92 and answers are on pg. no 78-90.

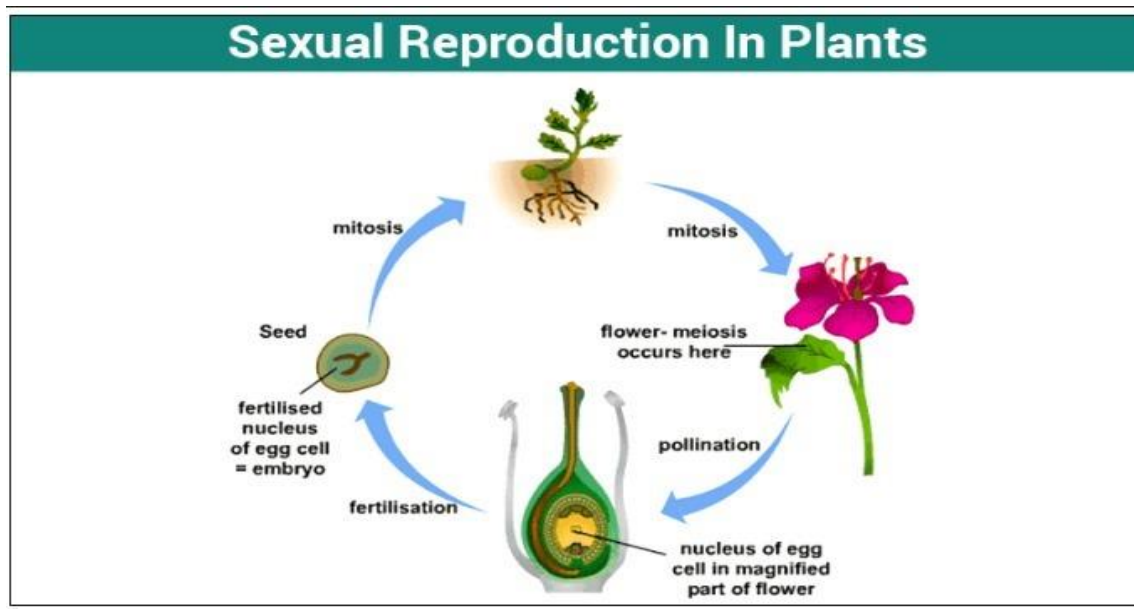
Day 1:

Topic: Sexual Reproduction in Plants

Additional Short-Questions:

- Explain the phenomenon of alternation of generation.
- Define double fertilization.

Web organizer/Flowsheets key points with diagrams:-



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests <https://classnotes.xyz/class-10-notes-biology-reproduction-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 78-80.

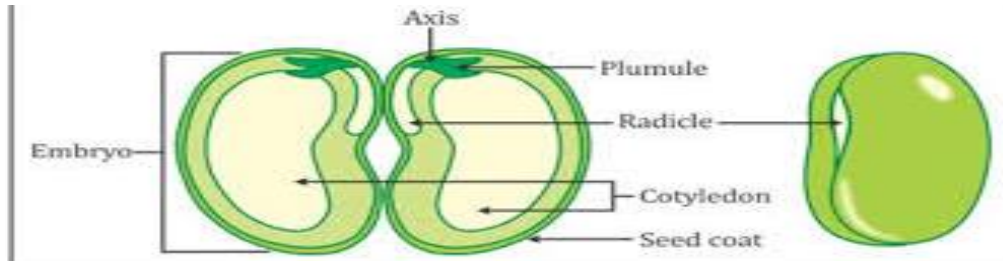
Day 2:

Topic: Pollination, Development and structure of Seed, Germination of Seed

Additional Short-Questions:

- Explain the types of pollination.
- Write the difference between epigeal and hypogeal

Web organizer/Flowsheets key points with diagrams:-



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests
<https://classnotes.xyz/class-10-notes-biology-reproduction-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 80-84.

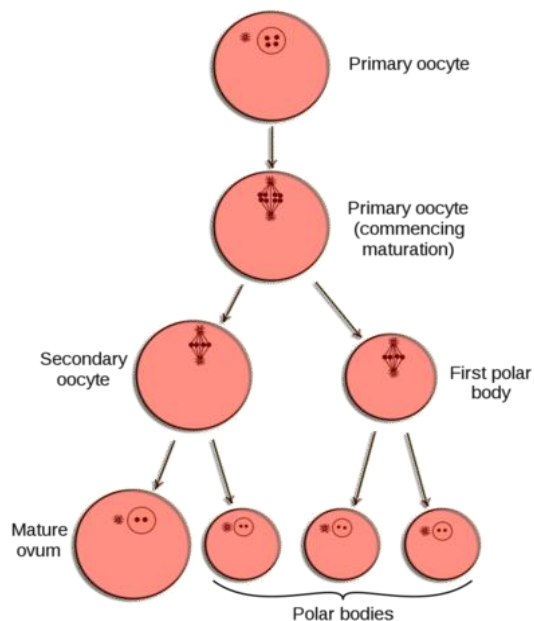
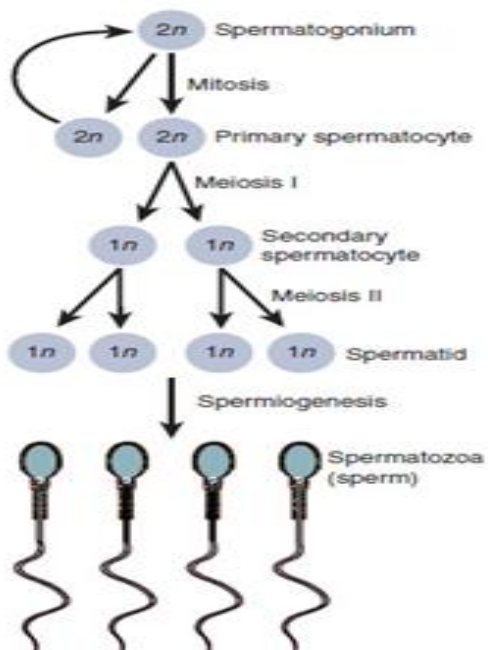
Day 3:

Topic: Sexual Reproduction in Animals, Reproduction in Rabbit, AIDS

Additional Short-Questions:

- Draw the neat diagram of spermatogenesis and Oogenesis.
- Briefly explain fertilization and its types
- Which type of cells is affected by HIV?

Web organizer/Flowsheets key points with diagrams:-



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests
<https://classnotes.xyz/class-10-notes-biology-reproduction-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 84-90.

(24th AUG 2020 – 29th AUG 2020)

Unit 15: Inheritance

Topic/s: 15.1 Introduction to genetics, 15.2 Chromosome and Genes, 15.3 Mendel's Law of Inheritance

Text Book Reading:-

Read introduction to genetics given on pg. no 94. It describes the genetic material like chromosomes and genes. It also explains Mendel's laws of inheritance on pg. no 98-101.

This link explains the concepts in an enlightening manner.

- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-6.1&v=b-var-gene-1>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-6.2&v=b-chrom-dna-14>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-6.2&v=b-chrom-dna-16>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-6.3&v=b-var-gene-7>
- <https://sabaq.pk/video-page.php?sid=federal-biology-10th-6.3&v=b-var-gene-8>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics on pg. no 94-101. Long questions no 1, 2, 3 on pg. no 110 and answers are on pg. no 94-101.

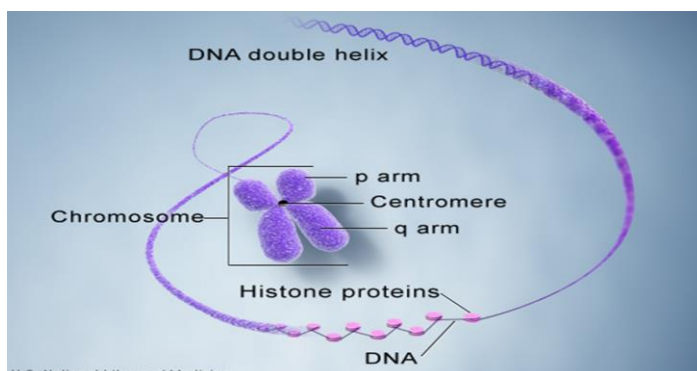
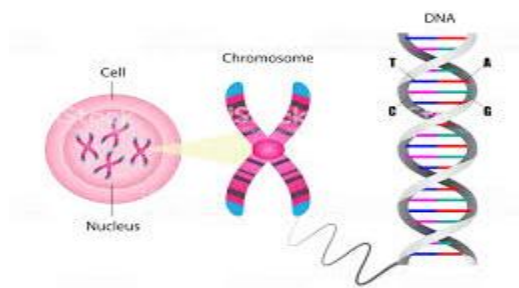
Day 1:

Topic: Introduction to Genetics, Chromosomes and Genes

Additional Short-Questions:

- Define replication.
- Draw the labeled diagram of Watson and Crick model of DNA.
- How would you define the process of transcription and translation?

Web organizer/Flowsheets key points with diagrams:-



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests
<https://classnotes.xyz/class-10-notes-biology-inheritance-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 94-96.

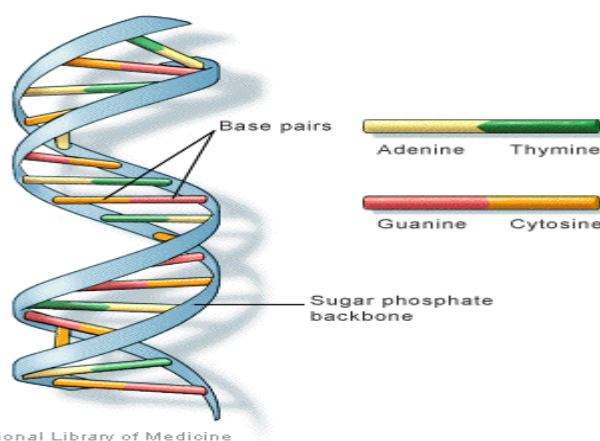
Day 2:

Topic: How does the DNA of Chromosome work?, Genotypes and its Types

Additional Short-Questions:

- How would you define the process of transcription and translation?

Web organizer/Flow sheets key points with diagrams:-



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests
<https://classnotes.xyz/class-10-notes-biology-inheritance-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 96-98.

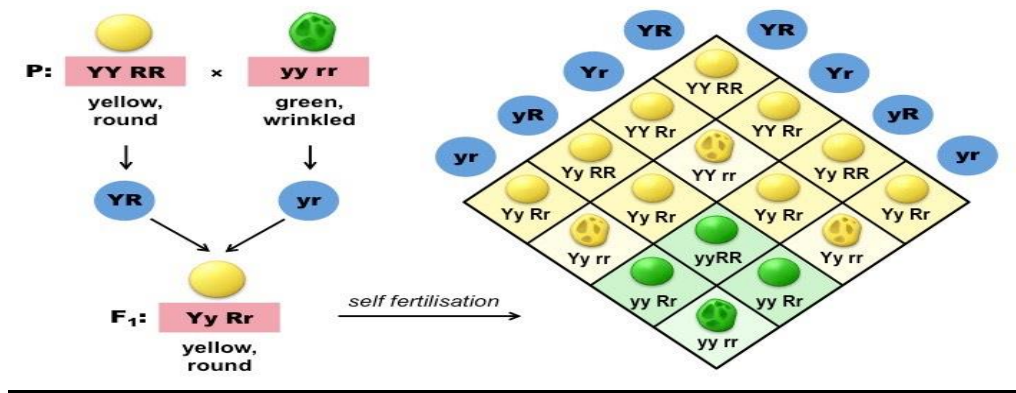
Day 3:

Topic: Mendel's Laws of Inheritance

Additional Short-Questions:

- What are the reasons gave by Mendel for the selection of an organism for genetic experiments.
- Define dihybrid cross.
- What is Punnett square?

Web organizer/Flowsheets key points with diagrams:-



Notes/self-assessment/Daily link:-

Follow these links to develop better concept through precise notes and practice tests

<https://classnotes.xyz/class-10-notes-biology-inheritance-notes/>

Written work:

Solve short question provided in the exercise of the textbook. Also practice sketching neat labeled diagrams included in above mentioned topics pg.no 98-101.

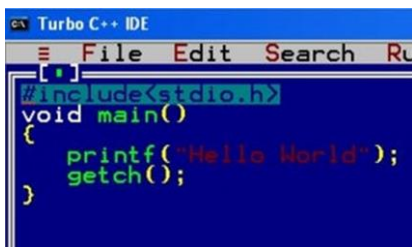
COMPUTER STUDIES

20 July-25 July 2020

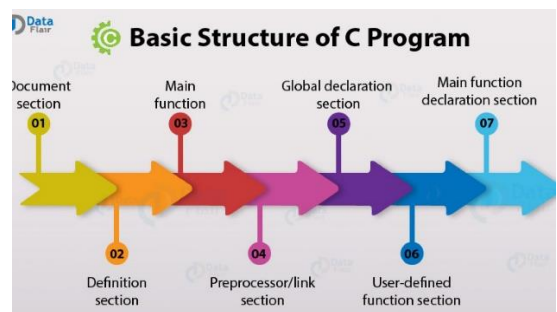
DAY-04

Chapter 02: Programming in C

- Define Computer Programming?
- Describe the concept of integrated development environment.
- What is the structure of C program?



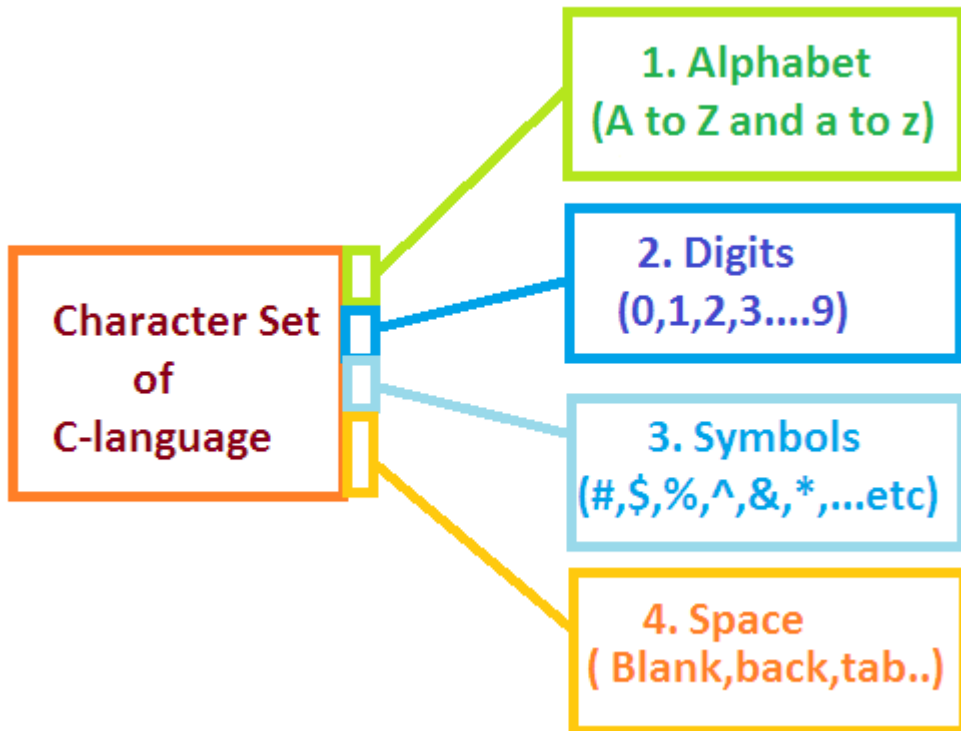
<https://www.youtube.com/watch?v=BQleAPh1Z3I>



DAY-05

Chapter 02: Programming in C

- Explain the types of comments in C language.
- Define Constant qualifier.
- Explain C language character set.



<https://www.youtube.com/watch?v=dgpAcMUBIRI>

DAY-06

Chapter 02: Programming in C

- Differentiate between Global and Local Variables.
- Explain the different data types used in C program.

Variable declaration	No. of bytes	Range
--	2	
Long int		
Unsigned int		
Float		
Double float		
Long double float		

https://www.youtube.com/watch?v=DvB9p_vevFU

FBISE Notes: For the solution of exercises on the basis of Board Pattern, students can take help from following notes: <https://classnotes.xyz/class-10-computer-notes-fbise/>

27 July- 1 Aug 2020

DAY-04

Chapter 02: Programming in C

- Differentiate between syntax and semantic.
- What are reserved words? Why they should not be used as variables?
- Which of the following are valid C variable? Give the reason if not variable area, 5X, sum, net, pay, float, _age, else, case, size22, my_weight.



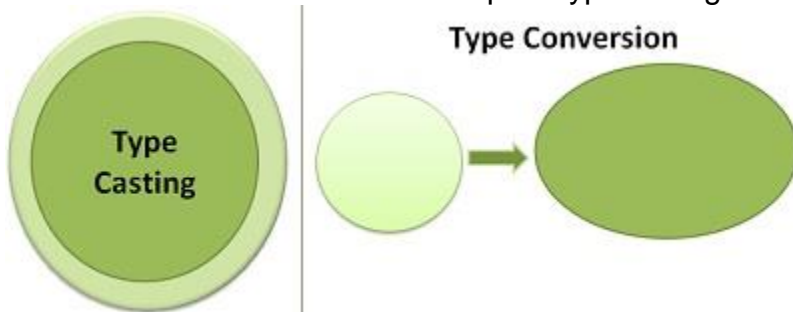
Reason: _____

https://www.youtube.com/watch?v=OkYgCda_vW0

DAY-05

Chapter 02: Programming in C

- Describe the functions of linker and loader program.
- What are the rules for specifying a variable name in C language?
- What is the difference between implicit typecasting and explicit typecasting?



<https://www.youtube.com/watch?v=dAMcvl6DIyo>

DAY-06

Chapter 02: Programming in C

- What is a preprocessor? Give examples.
- Differentiate between compiler and interpreter.
- Describe the following HLL.
 - a) C/C++ b) Visual Basic
 - c) Java d) C#

How Compiler Works.



How interpreter works



<https://www.youtube.com/watch?v=e4ax90XmUBc>

<https://www.youtube.com/watch?v=ffovPJF86wU>

❖ **FBISE Notes:** For the solution of exercises on the basis of Board Pattern, students can take help from following notes: <https://classnotes.xyz/class-10-computer-notes-fbise/>

3 Aug-8 Aug 2020

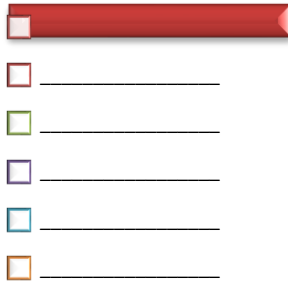
DAY-04

Chapter 03: Input and Output Handling

- Define Input and Output functions.
- What is displaying strings output function? Explain with example.

- Find the sum of 2 variables using scanf() function.

Addition of 2 Variables

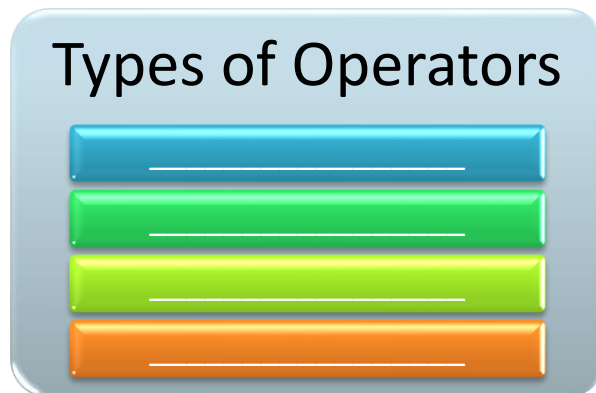


<https://www.youtube.com/watch?v=kidWWcv1g0A>

DAY-05

Chapter 03: Input and Output Handling

- Describe the getchar() function.
- Differentiate between unary and binary operators.
- What are operators in C language. List the types of operators.

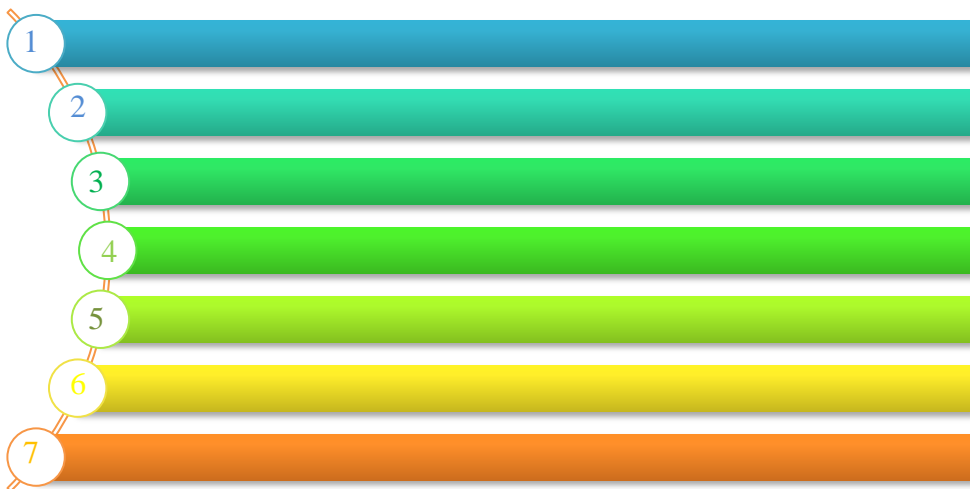


<https://www.youtube.com/watch?v=d-lqV-KZwwg>

DAY-06

Chapter 03: Input and Output Handling

- Why integer, floating and character Format Specifiers is used? Explain with examples.
- Describe how basic and compound assignment operators are used.
- Define and explain the order of precedence of operators.



<https://www.youtube.com/watch?v=8H9G621pQq0>

❖ **FBISE Notes:** For the solution of exercises on the basis of Board Pattern, students can take help from following notes: <https://classnotes.xyz/class-10-computer-notes-fbise/>

10 Aug-15 Aug 2020

DAY-04

Chapter 03: Input and Output Handling

- Describe the function of following operators.
a) Relational Operators b) Logical Operators c) Conditional Operators
- Write a program that reads three numbers and print their sum, product and average.
- Write a program that reads the length and width of a rectangle and print its area.

<https://www.youtube.com/watch?v=NhvbnD4VwHU>

DAY-05

Chapter 03: input and Output Handling

- Differentiate between getch() and getche() function.
- Evaluate the following expression.

$7+5*(3+4)$	$100/10/4$	$50\%13\%3$	$3/7*3-6$
•	•	•	•

<https://www.youtube.com/watch?v=EjijDKspjpl>

DAY-06

Chapter 03: Input and Output Handling

- What will be the output of following program?

```
#include<stdio.h>

Void main (void)
{
Int z, y, z1, z2, z3, z4;

X=17;

Y=5;

Z1=x/y

Printf("\nz1=%d", z1);

Z2=x%y;

Printf("\nz2=%d",z2);

Z3=++x;
```

- Write a program that reads name and address of a person and prints it on a screen using gets() and puts() function.

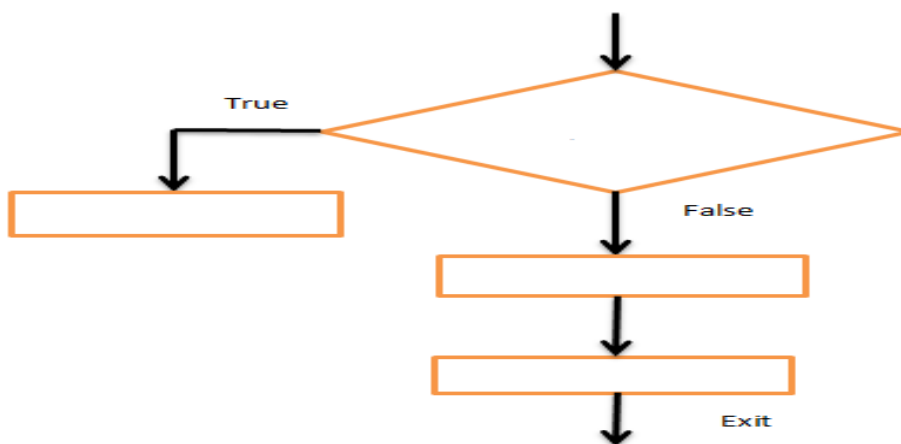
https://www.youtube.com/watch?v=GIqcZXtqh_U

17 Aug-22 Aug 2020

DAY-04

Chapter 04: Conditional Control Structure

- Define control statement.
- Define conditional statement.
- What is the purpose and structure of if statement? Explain with the help of example.



<https://www.youtube.com/watch?v=GmaH3XPfoLI>

DAY-05

Chapter 04: Conditional Control Structure

- What is the purpose and structure of if-else statement? Explain with examples.
- Which statement is used to exit from the body of switch statement?
- Explain the use of conditional operator in program.

Conditional/Ternary Operators		Suppose X and Y are two variables
Operator	Expression	
?:	(X < Y) ? TRUE : FALSE	
Description		
If X is less than Y, will return TRUE, otherwise FALSE		

<https://www.youtube.com/watch?v=xpMMpl2YI-0>

DAY-06

Chapter 04: Conditional Control Structure

- Differentiate between else-if and switch selection statement.

- What is nested selection structure?
- Write the following statement using if-else statement.

$K=(a+b>20)?A+3*b:a-b;=$

<https://www.youtube.com/watch?v=RhgkPH2z55o>

❖ **FBISE Notes:** For the solution of exercises on the basis of Board Pattern, students can take help from following notes: <https://classnotes.xyz/class-10-computer-notes-fbise/>

24 Aug-29 Aug 2020

DAY-04

Chapter 04: Conditional Control Structure

- Write the following statement using conditional operators.

```
if (x>y)
Z=(X+Y)/3;
Else
Z=x-5*y;
```

- Write a program that reads a number and print its square of it is greater than 10.

<https://www.youtube.com/watch?v=rULDbIbrXis>

DAY-05

Chapter 04: Conditional Control Structure

- Write a program that reads two numbers and prints the larger.
- What is advantage and limitation of switch statement?

https://www.youtube.com/watch?v=GFNTm_eqIL8

DAY-06

Chapter 04: Conditional Control Structure

- What will be printed when the following code is executed?
- For which purpose if statement is used in programming.

```
X=1;
Switch(x)
{
Case 1;
Case 2;
Case 3;
Printf("\n x is a positive number");
Break;
Default
Printf("\n Value of x is 1");
```

https://www.youtube.com/watch?v=8RTauTz_zRc

Notes:
<https://classnotes.xyz/class-10-computer-notes-fbise/>

Physics

(20th July 2020-25th July 2020)

Day-1

Chapter no 12 Geometrical optics

Topic:

1. Terms used in Reflection
2. Laws of Reflection

Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.1&v=p-9-10-shm-18>

Activity:

1. What do you mean by reflection of light?
2. Describe the laws and types of motion?
3. Solve Review Question 12.2.

Day-2

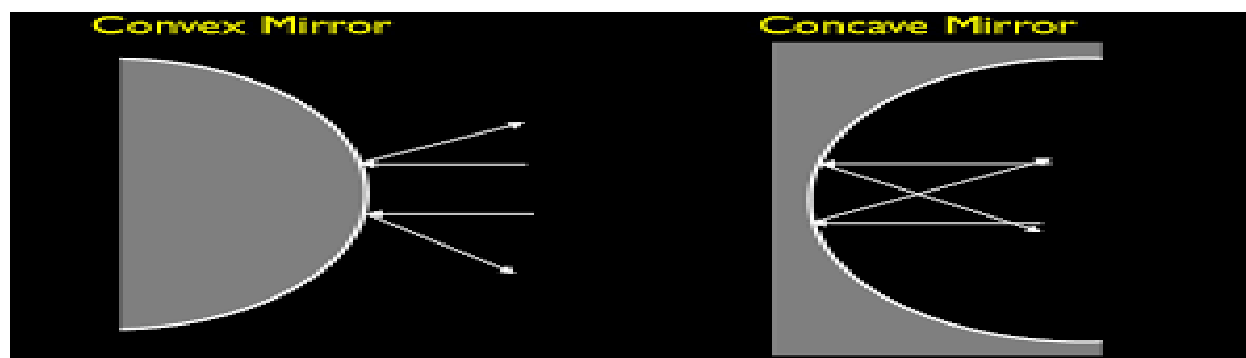
Chapter no 12 Geometrical Optics

Topic:

1. Spherical Mirrors
2. Types of Spherical Mirrors

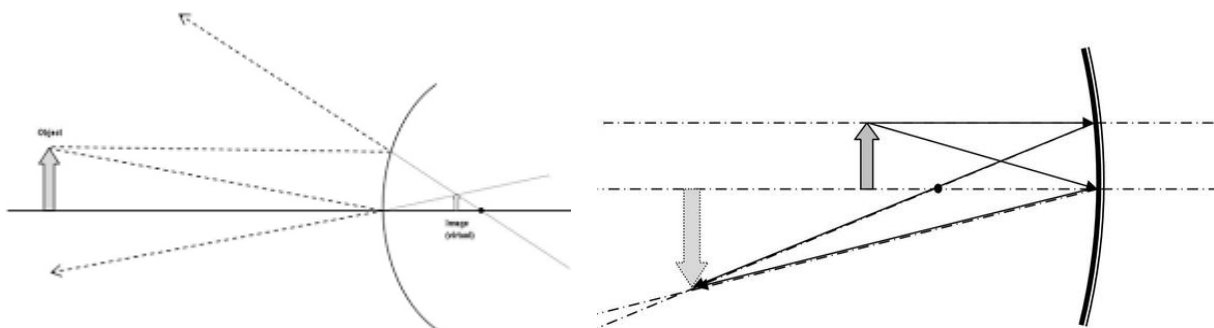
Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.2&v=p-9-10-geo-opt-4>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.2&v=p-9-10-gopt-4-prob1>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.2&v=p-9-10-gopt-4-prob1>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.2&v=p-9-10-geo-opt-5>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.2&v=p-9-10-gopt-5-prob1>



Activity:

1. What are spherical mirrors?
2. Write its types and different terms related to spherical mirror?
3. Label the diagram for concave and convex mirror.



i.

Day-3

Chapter no 12 Geometrical Optics

Topic: 1.Solve problems of image location by spherical mirrors by using mirror formula.

Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.1&v=p-9-10-shm-18>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.2&v=p-9-10-geo-opt-6>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.2&v=p-9-10-gopt-6-prob1>

Activity:

1. Solve conceptual question 12.1
2. Solve Numerical problem 12.1
3. Solve Numerical problem 12.2.

(27th JULY 2020 - 1st AUG 2020)

Day-1

Chapter no 12 Geometrical Optics

Topic: 1.Refracton of light

- a. Angle of incidence
- b. Angle of refraction

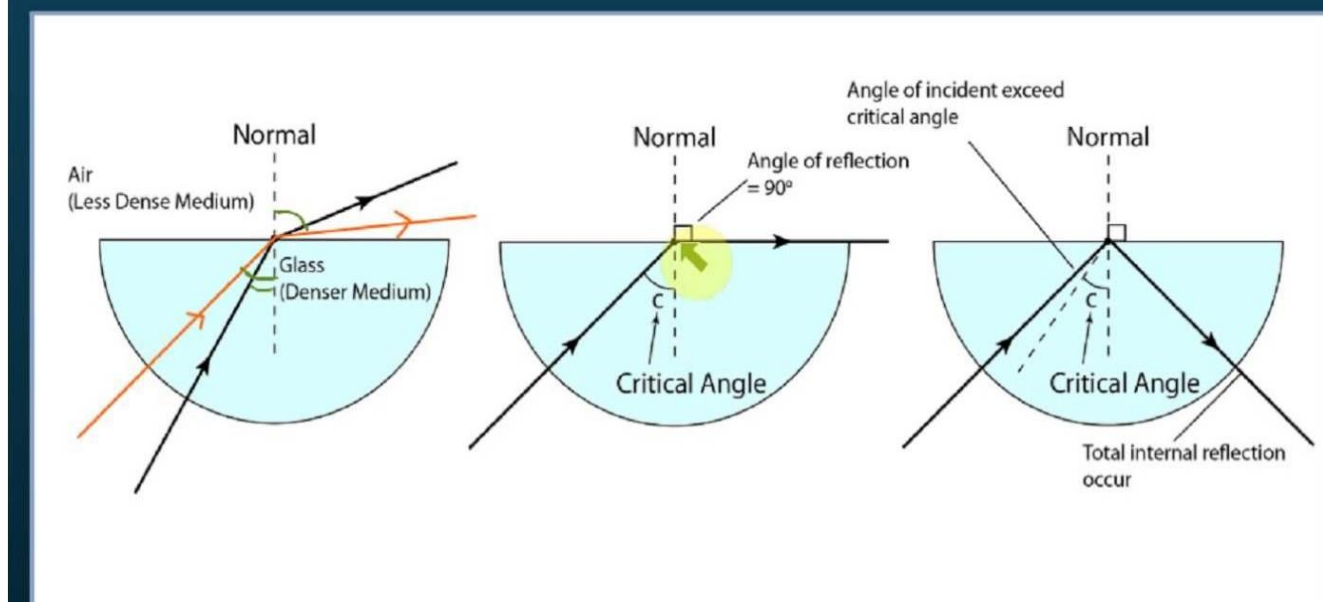
Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.4&v=p-9-10-shm-19>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.4&v=p-9-10-geo-opt-12>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.4&v=p-9-10-gopt-12-prob1>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.4&v=p-9-10-geo-opt-13>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.4&v=p-9-10-geo-opt-14>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.4&v=p-9-10-gopt-14-prob1>

Activity:

1. What is critical angle? Derive relationship between the critical angle and the refractive index of a substance?
2. Solve problems by using the formula i.e. $\sin i / \sin r$
3. Solve conceptual question 12.2.

The critical angle is the angle of incident in an optically denser medium for which the angle of refraction is 90° .



Day-2

Chapter no 12 Geometrical Optics

Topic:

1. What is Total internal reflection?
2. Conditions for total internal reflection.

Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.5&v=p-9-10-geo-opt-17>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.5&v=p-9-10-gopt-17-prob1>

Activity:

1. State the conditions for total internal reflection.
2. Define the critical angle?

Day-3

Chapter no 12 Geometrical Optics

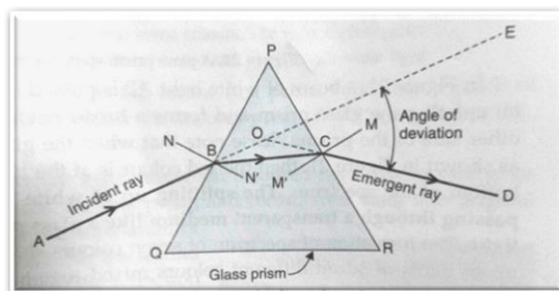
Topic: Refraction through prism

Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.6&v=p-9-10-geo-opt-18>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.6&v=p-9-10-geo-opt-18a>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.6&v=p-9-10-geo-opt-18a>

Activity:

1. Describe the passage of light through glass prism?
2. Measure the angle of deviation?



(3rd AUG 2020 - 8th AUG 2020)

Day-1

Chapter no 12 Geometrical optics

Topic: 1.Lens

2 Lens Terminologies

Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.7&v=p-9-10-geo-opt-19>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.7&v=p-9-10-geo-opt-20>

Activity:

- I. A coin is placed at a focal point of a converging lens, is an image formed? What is its nature?
- II. What is the difference between real and virtual image?
- III. How does the thickness of lens affect its length?

Day-2

Chapter no 12 Geometrical optics

Topic: 1.Image formation by lenses

2 image location by lens equation

Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.7&v=p-9-10-geo-opt-21>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.7&v=p-9-10-geo-opt-22>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.7&v=p-9-10-gopt-22-prob1>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.7&v=p-9-10-geo-opt-23>

Activity:

1. Under what conditions will a converging lens form a virtual image?
2. under what conditions a converging lens form real
3. Solve the given worksheet.

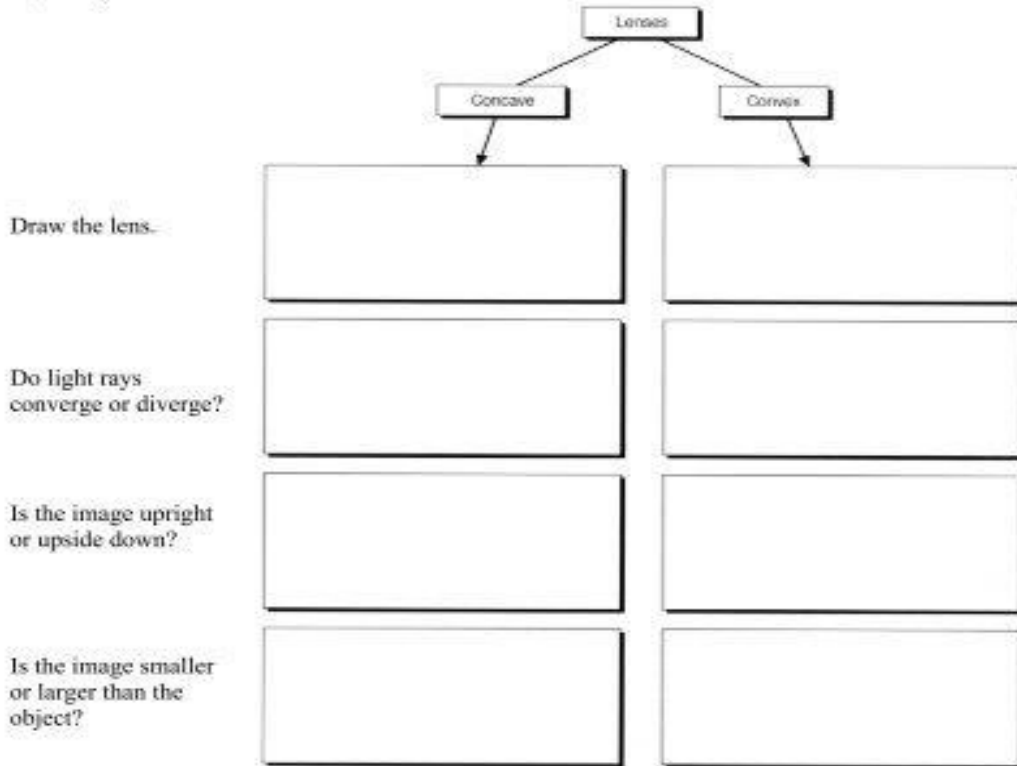
SCIENCE 8 – LENSES WORKSHEET

NAME: _____

- 1) Match each **Term** on the left with the best **Descriptor** on the right. Each **Descriptor** may be used only once

Term		Descriptor	
	Lens	A.	Point where the converging light rays meet
	Focal length	B.	Lens that is thinner in the middle than at the edge
	Convex lens	C.	A piece of transparent material that bends light
	Concave lens	D.	Lens that is thicker in the middle than at the edge
	Focal point	E.	Distance from the centre of the lens to the focal point

- 2) Compare and contrast concave lenses and convex lenses.

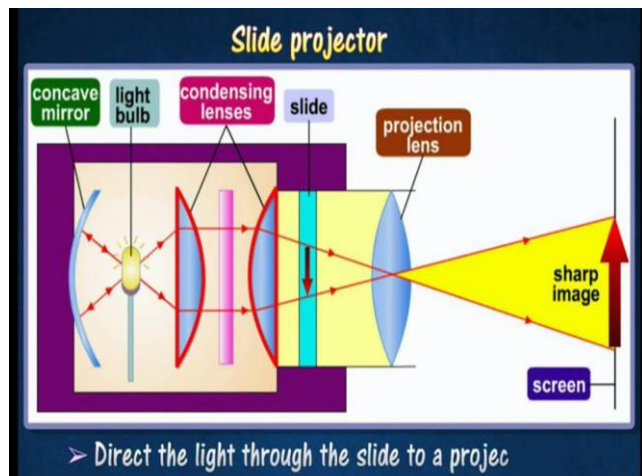


Day-3

Chapter no 12 Geometrical optics

Topic: 1. Application of lenses

2. Slide projector
3. Simple Microscope



Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.10&v=p-9-10-geo-opt-33>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.11&v=p-9-10-geo-opt-38>

Activity:

- How image are formed in lenses through refraction? Explain with the help of ray diagram of lenses?
- Write the use of lens in camera and slide projector?
- Draw Ray diagram of simple microscope.
- Label the diagram of simple microscope.



(10th AUG 2020 – 15th AUG 2020)

Day-1

Chapter no 12 Geometrical optics

Topic: 1.compound microscope

2. Telescope

Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.12&v=p-9-10-geo-opt-39>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.13&v=p-9-10-geo-opt-40>

Activity:

- I. What is the construction of compound microscope?
Write about its magnification of lenses?
- II. Write the construction and working of telescope?

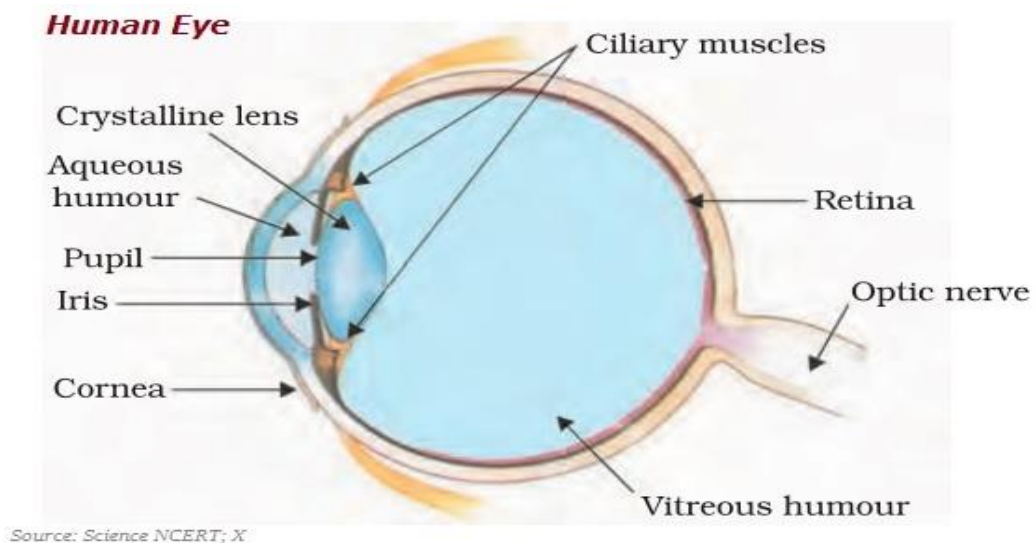


Day-2

Chapter no 12 Geometrical optics

Topic:

1. Human Eye
2. Accommodation of human eye.



Video link

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.14&v=p-9-10-geo-opt-30>

Activity:

1. How image is formed in human eye?
2. Draw its ray diagram.

Day-3

Chapter#12 Geometrical optics

Topic:

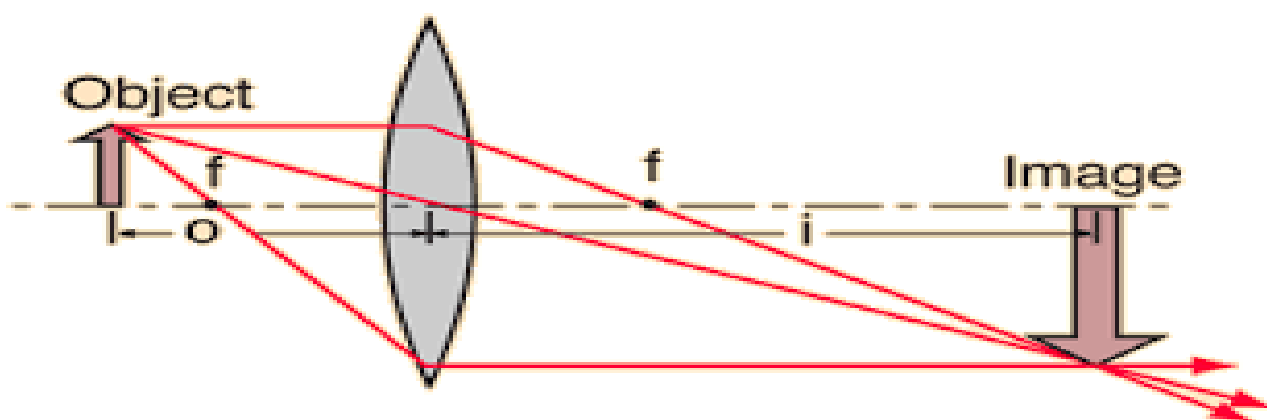
1. Defects of vision

Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.15&v=p-9-10-geo-opt-44>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-3.15&v=p-9-10-geo-opt-45>

Activity:

1. Explain the defects of vision with the help of ray diagram.
2. What is the difference between short sightedness and long sightedness
3. Name the lens used in short sightedness.
4. Name the lens used in long sightedness.



(17th AUG 2020 – 22nd AUG 2020)

Day-1

Chapter no 12 Geometrical optics

Topic: 1. Multiple choice questions

2. Numerical problems
3. Students see the above notes provided n link and solve the exercise

Video link:

- <https://www.youtube.com/watch?v=GQOEWJHcpDc>
- <https://classnotes.xyz/class-10-physics-notes-fbise/>

Activity:

1. Solve the multiple choice question and numerical problems from exercise of book.

Day-2

Chapter no 12 Geometrical optics

Topic:

1. Numerical problems

Notes link:

- <https://classnotes.xyz/class-10-physics-notes-fbise/>

Activity:

1. Solve the numerical problems.

Day-3

Chapter no 13 Electrostatics

Topic:

1. Introduction to electrostatics

Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-4.1&v=p-9-10-electrostatics-1>
- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-4.1&v=p-9-10-electrostatics-3>

Activity:

1. Describe simple experiment to show the production and detection of electric charge?

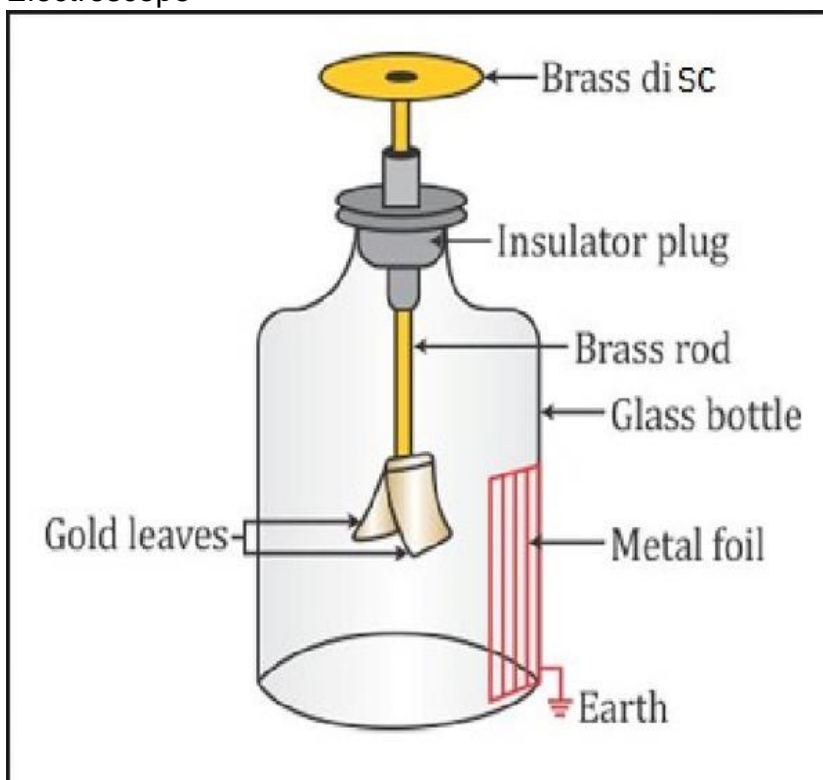
(24th AUG 2020 – 29th AUG 2020)

Day-1

Chapter no 13 Electrostatics

Topic:

1. Electroscope



Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-4.2&v=p-9-10-electrostatics-4>

Activity:

1. Explain the working and construction of electroscope.

Day-2

Chapter no 13 Electrostatics

Topic:

1. Detecting type of charge

Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-4.3&v=p-9-10-electrostatics-5>

Activity:

How charges are detected with the help of it.

Day-3

Chapter no 13 Electrostatics

Topic:

1. Coulombs law.

Video link:

- <https://sabaq.pk/video-page.php?sid=federal-physics-10th-4.4&v=p-9-10-electrostatics-7>

The diagram shows the equation for Coulomb's Law: $F_{12} = F_{21} = k \frac{q_1 q_2}{r^2}$. Labels with arrows point to each part of the equation: 'charge on object 1' points to q_1 ; 'charge on object 2' points to q_2 ; 'the force of object 2 on object 1' points to F_{12} ; 'the force of object 1 on object 2' points to F_{21} ; 'electrostatic constant' points to k ; and 'distance between the two objects' points to r^2 .

Activity:

1. State and explain coulombs law.

PAKISTAN STUDIES

20 July-25 July 2020

DAY-04

Chapter 02: Genesis and Development of Kashmir Issue

- When and how did Kashmir issue originated?
- State the stance of India while presenting Kashmir Issue in Security Council?
- Identify the countries who favored Pakistan in Kashmir problem



Name the division of Kashmir fixed by UNO _____



Review pg. # 35-36 & Q.no. 8(short), 7 (long) of T.B

- <https://www.youtube.com/watch?v=QbFGaLqVq7o>
- <https://www.youtube.com/watch?v=wcx5OqmHANU>

DAY-05

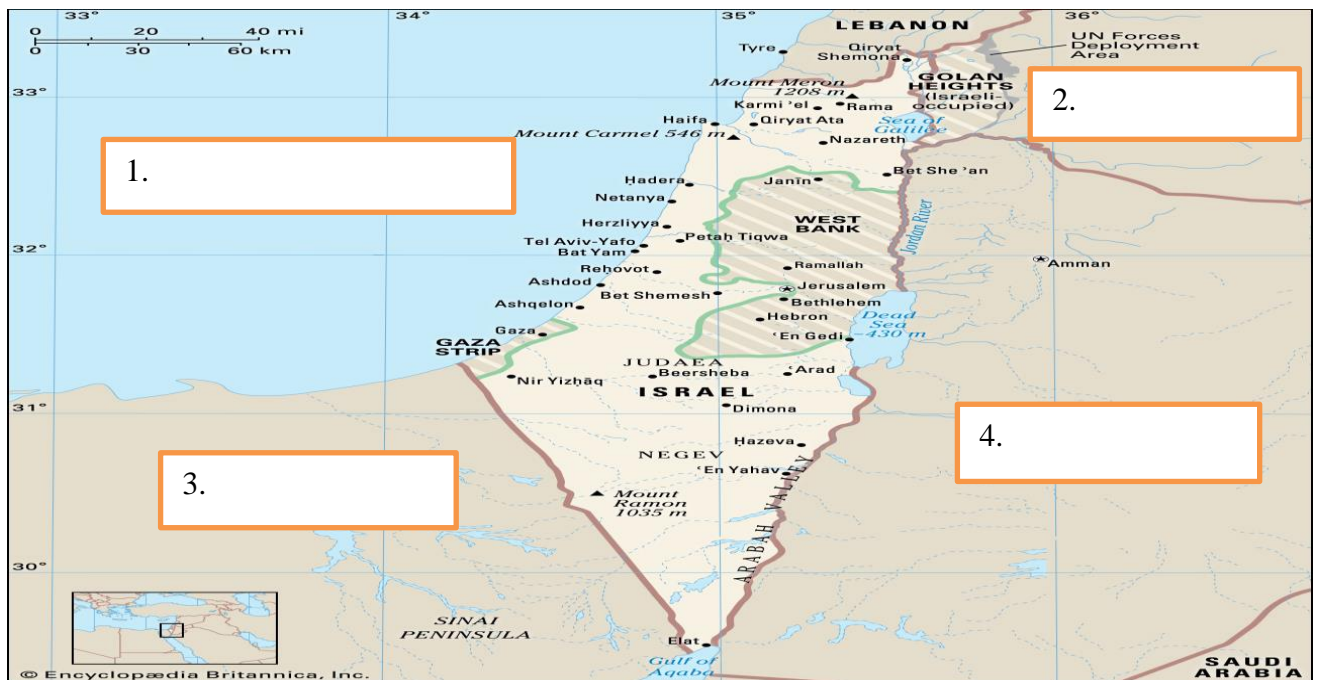
Chapter 02: Pakistan relations with Egypt, Malaysia & UAE

- List down developed, developing and under-develop Muslim countries of Asia.

Under-Develop	Developing	Developed
1. _____	4. _____	7. _____
2. _____	5. _____	8. _____
3. _____	6. _____	9. _____

Pakistan Affair: Palestine Issue

Activity: Identify neighboring countries of Palestine



- Which Muslim country recognized Israel first?
- Explain the gradual process of Israel attack on Palestine

Review: pg.# 37-38 of T.B

<https://www.youtube.com/watch?v=nMljPpRJic>

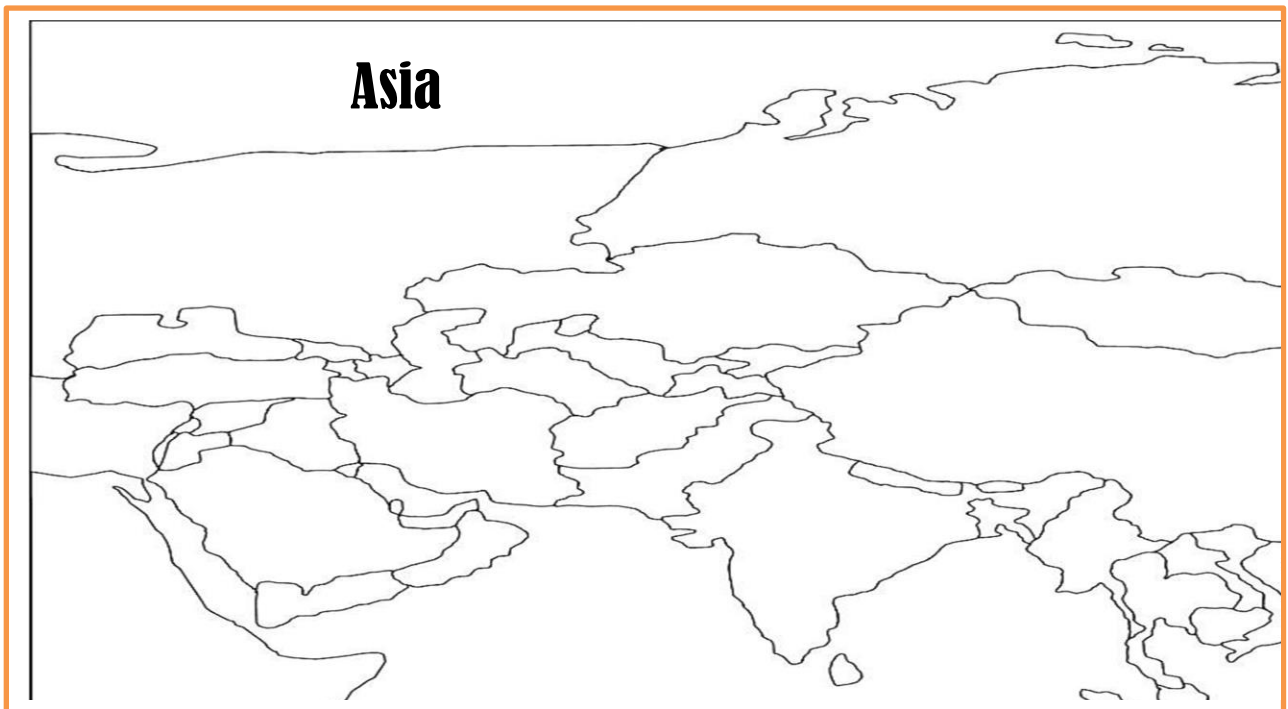
<https://www.youtube.com/watch?v=x7zwTpZW7LM>

DAY-06

Chapter 02: Pakistan relations with Central Asian Countries

- Discuss the relationship of Pakistan with Central Asian Countries
- Which countries are included in the list of Central Asian Countries? Also give different shades to each country.

1. _____
2. _____
3. _____
4. _____
5. _____



Pakistan Value: Unity

- Explain the importance of Unity at domestic & international level

Review: pg.# 38-39 of T.B

<https://www.youtube.com/watch?v=Y7u6l-fwOWs>

<https://www.youtube.com/watch?v=hV2i8IWEj6E>

FBISE Notes: For the solution of exercises on the basis of Board Pattern, students can take help from following notes: <https://classnotes.xyz/class-10-pakistan-studies-notes-fbise>

27 July- 1 Aug 2020

DAY-04

Chapter 02: Pakistan relations with SAARC Countries

- Which country introduced SAARC? When?
- Explain main objectives of SAARC
- List down member countries of SAARC

Full form of SAARC



Review: pg.# 39-42 & Q.no 10 (long) of T.B

<https://www.youtube.com/watch?v=jFNBybhCqfg>

<https://www.youtube.com/watch?v=s9ZR-aZl1-g>

DAY-05

Chapter 02: Pakistan relations with America

- when and how did World Trade Centre tragedy took place
- List down major imports and exports of Pakistan from America



Imports

- _____
- _____
- _____



Exports

- _____
- _____
- _____

Pakistan Affair: Globalization

- Discuss advantages & disadvantages of globalization

<https://www.youtube.com/watch?v=ZoVwWtaFpKc>

<https://www.youtube.com/watch?v=JJ0nFD19eT8>

Review pg. # 42-43 & Q.no 11 (long) of textbook

DAY-06

Chapter 02: Foreign relations of Pakistan

- Briefly explain Pakistan trade with developed countries
- Explain Pakistan contribution towards peace keeping in the world



Pakistan Value: Flexibility

- Discuss the role of flexibility while adopting change in life

<https://www.youtube.com/watch?v=LqAk3bI99AM>

<https://www.youtube.com/watch?v=CoxOb5ls-sY>

Review pg. # 42-50 & Q.no. 12 (long) of textbook

❖ **FBISE Notes:** For the solution of exercises on the basis of Board Pattern, students can take help from following notes: <https://classnotes.xyz/class-10-pakistan-studies-notes-fbise>

3 Aug-8 Aug 2020

DAY-04

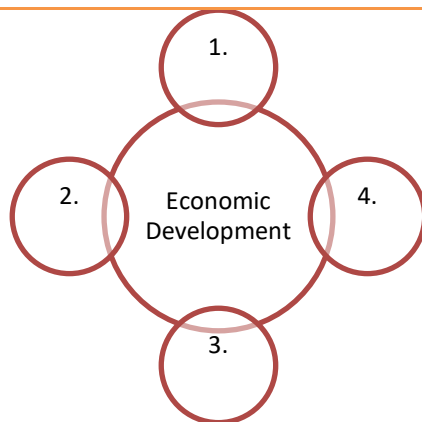
Chapter 03: Economic Development

- Define Economic Development
- Identify 4 factors of GDP

Write down full form of the following Abbreviation

A. GDP: _____

B. GNP: _____



- Briefly explain economic development of Pakistan of the following time period
a) 1947-1950 b) 1950-1960 c) 1960-1970

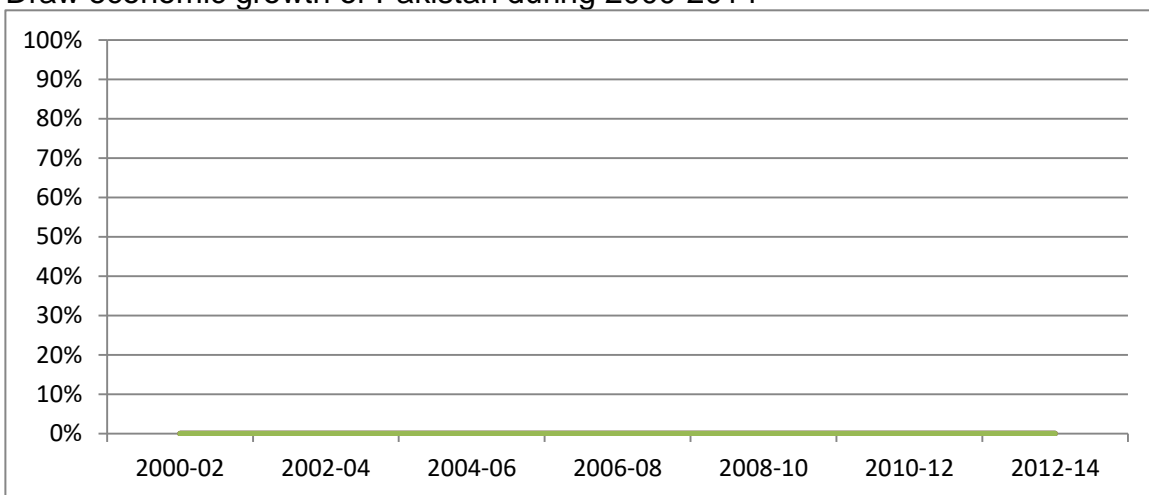
<https://www.youtube.com/watch?v=iJNHs3hEFs>
<https://www.youtube.com/watch?v=nv2qRknOQ6g>

**Review: pg. # 54-56 & Q.no 7
(long) of textbook**

DAY-05

Chapter 03: Economic Development of Pakistan

- Explain the major drawbacks of economic development of Pakistan 1970-1990
- Draw economic growth of Pakistan during 2000-2014



Pakistan Affair: FDI

- Discuss advantages & disadvantages of Foreign Direct Investment FDI

<https://www.youtube.com/watch?v=ArCyojP3gl4>
<https://www.youtube.com/watch?v=-pB5bHFQGdM>

**Review pg. # 58-59 & Q.no 10
(long) of textbook**

<https://www.youtube.com/watch?v=Heo0yjU6E-Y>

DAY-06

Chapter 03: Important Sectors of Economy

- When did Mineral Development Corporation established in Pakistan? Explain its purpose
- List down major metallic minerals found in Pakistan
- List down major non-metallic minerals found in Pakistan? Give examples

Pakistan Value: Hygiene

<https://www.youtube.com/watch?v=lh9mfhd0Lmg>
<https://www.youtube.com/watch?v=oWh6daGaq6c>

**Review pg. # 59-62 & Q.no. 8
(long) of textbook**

❖ **FBISE Notes:** For the solution of exercises on the basis of Board Pattern, students can take help from following notes: <https://classnotes.xyz/class-10-pakistan-studies-notes-fbise>

10 Aug-15 Aug 2020

DAY-04

Chapter 03: Economic Development

- Identify patterns of modernization in agriculture
- Explain main problems of agriculture system of Pakistan
- Explain importance of Agriculture of Pakistan

**Review: pg. # 62-64, 74-77
& Q.no 1, 9 (long) of
textbook**

Agriculture in Pakistan

- Agriculture is a vital sector of Pakistan's _____
- It accounts _____ % of total GDP in Pakistan. _____
- It employs _____ % of the labor force of Pakistan. _____
- About _____ % of Pakistan's total land area is under cultivation. _____
- _____ contribution to foreign exchange earnings. _____

<https://www.youtube.com/watch?v=M9VRUc4L-C8>

<https://www.youtube.com/watch?v=zQHDae>

DAY-05

Chapter 03: Irrigation System of Pakistan

- Describe Indus Water Treaty
- State major water reserves of the world (%)

Major (natural) Reservoirs for Water Storage	Percentage of Water in Storage
Ocean	
Groundwater	
Surface water (Rivers, lakes, streams, ponds)	
Ice caps/glaciers	
Atmosphere	
Total % of Earth's water held in storage.	100%
Total % of Earth's freshwater held in storage.	
Total % of Earth's freshwater held in storage and readily available for human consumption.	

Identify main sources of irrigation system of Pakistan

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Name any two water supply companies of Pakistan

Pakistan Affair: Natural Resources

- Explain the role of natural resources in the development of Pakistan

Review pg. # 64-69 & Q.no 4, 9 (short) of T.B

<https://www.youtube.com/watch?v=EEsV7HFd1Jk>

<https://www.youtube.com/watch?v=ReXNTyEp3qE>

DAY-06

Chapter 03: Production & distribution of major crops of Pakistan

- Differentiate Rabi and Kharif crops with examples
- Complete the following table:

	Crop type	Production area	Export (%)	Domestic consumption %
Wheat				
Cotton				
Rice				
Sugar cane				
Maize				
Tobacco				

- Discuss livestock and fishing contribution in Pakistan's economy

Pakistan Value: Generosity

<https://www.youtube.com/watch?v=gXYWWEuTQ0k>

Review pg. # 69-74 of textbook

<https://www.youtube.com/watch?v=SFLJdhnu-gk>

17 Aug-22 Aug 2020

DAY-04

Chapter 03: Industries of Pakistan

- Define industry and discuss how small scale industry would be beneficial for developing

countries

- Identify Major type of industries found in Pakistan



Cottage Industry

1. _____
2. _____
3. _____
4. _____
5. _____



Small Industry

1. _____
2. _____
3. _____
4. _____
5. _____



Large Industry

1. _____
2. _____
3. _____
4. _____
5. _____

Review: pg. # 54-56 & Q.no 2 (long), 3 (short) of textbook

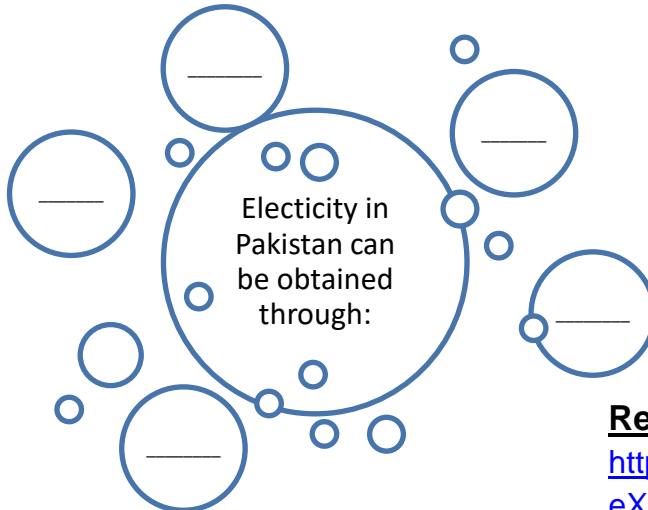
<https://www.youtube.com/watch?v=UU91wOWX7hk>

Activity: State the process that how all above Mentioned types of Industries are interlinked
<https://www.youtube.com/watch?v=I8IUXQJ6rSo>

DAY-05

Chapter 03: Sources of Energy in Pakistan

- Discuss the ways through which electricity can be Obtained in Pakistan



- Identify components require for the production of electricity
- What is PAEC explain its purpose of establishment?
- Which one is the most expensive and cheapest way of obtaining electricity

Review pg. # 79-81 of textbook

<https://www.youtube.com/watch?v=ReXNTyEp3qE&t=480s>

<https://www.youtube.com/watch?v=QqyOJqK0iXU>

Pakistan Affair: Online Business

- Discuss how online business would be Considered as most attractive way of business

DAY-06

Chapter 03: Sources of Energy

- Complete the given table

	Founded in	Reserve qty	Domestic use	Export
Coal				
Natural gas				
Petroleum				

Pakistan Value: Self-Control

<https://www.youtube.com/watch?v=ACYHERGmais>

Review pg. # 81-82 & Q.no. 4 (long) of textbook

❖ **FBISE Notes:** For the solution of exercises on the basis of Board Pattern, students can take help from following notes: <https://classnotes.xyz/class-10-pakistan-studies-notes-fbise>

24 Aug-29 Aug 2020

DAY-04

Chapter 03: International trade of Pakistan

- Define International trade and its benefits
- Define major trading partners of Pakistan

- Identify Major type of balance of trade? Discuss Pakistan's state in these types



Activity: Discuss how Pakistan can achieve BOPs next levels

<https://www.youtube.com/watch?v=xPqOLN3rKj0>

Review: pg. # 82-88 & Q.no 5 (long), 1, 3, 5, 6, 8 (short) of textbook

DAY-05

Chapter 03: Poverty in Pakistan

- Explain the main causes/solutions of Poverty in Pakistan
- Discuss major flaws of education system of Pak
- Explain the connection between poverty and Education

- Current Literacy rate of Pakistan is _____

Activity: Develop a plan to eradicate poverty from Pakistan

Pakistan Affair: 5th- Generation War

- Discuss the impact of 5th-Gen war impact in Pakistan

Review pg. # 88-89 of textbook

<https://www.youtube.com/watch?v=UNPVMNAHN3E>

<https://www.youtube.com/watch?v=fBnenFthG1I>

DAY-06

Chapter 03: Ports of Pakistan

- Identify major dry-ports of Pakistan

Dry-ports of Pakistan

1. _____

2. _____

3. _____

- Explain significance of seaports of Pakistan for other countries of Asia
- Allocate major seaports of Pakistan on map

Pakistan Value: Time-Management

- Discuss the role of time management to achieve the goals of life

<https://www.youtube.com/watch?v=qR1X04PgrUY>

<https://www.youtube.com/watch?v=0ARKQqTtnlQ>

Review pg. # 89-90 & Q.no. 6 (long) of T.B



❖ **FBISE Notes:** For the solution of exercises on the basis of Board Pattern, students can take help from following notes: <https://classnotes.xyz/class-10-pakistan-studies-notes-fbise>

اسلامیات سلیبس برائے جماعت دہم

20 جولائی 30 اگست 2020

عمومی ہدایات برائے طلباء و والدین

1. اسلامیات کی لکھائی خوشخط کریں
2. کام نیٹ کاپی پر کریں۔
3. حاشیہ ضرور لگائیں۔
4. عربی الفاظ کے معنی کے لیے تفسیر کا استعمال کریں۔
5. والدین سے درخواست ہے کہ چھٹیوں کو کار آمد بنانے کے لیے دیا گیا کام اپنی نگرانی میں کروائیں اور جہاں کہیں بھی ضرورت ہو متعلقہ استانی سے رابطہ کریں۔
6. ہمارا بنیادی مقصد یہ ہے کہ آپ کا تعلق اپنی تعلیم سے جڑا رہے۔ اسی مقصد کے تحت آپ کے لیے تخلیقی اور تعلیمی سرگرمیوں سے بھر پور تعطیلات کا کام تیار کیا گیا ہے۔

20 جولائی 25 جولائی 2020

دن	تاریخ	عنوان	صفحہ نمبر	گھر کا کام	زرائع	سرگرمی
جمعرات	23 جولائی	سورة الاحزاب آیات 20-1 دہرائی	27-31	ورک شیٹ	ذیل میں دی گئی ہے	تفسیر معارف القرآن
جمعہ	24 جولائی	سورة الاحزاب آیات 21-40 دہرائی	32-37	ورک شیٹ	ذیل میں دی گئی ہے	تفسیر معارف القرآن
ہفتہ	25 جولائی	سورة الاحزاب دہرائی 41-68	38-43	ورک شیٹ	ذیل میں دی گئی ہے	تفسیر معارف القرآن



ورک شیٹ

درست جواب پر دائرہ لگائیں۔

1. سورة الاحزاب کب نازل ہوئی؟

(الف)۔ مکہ میں (ب)۔ مدینہ میں (ج)۔ خیبر میں (د)۔ عرفات میں

2. غزوة احزاب کا دوسرا نام کیا ہے؟

(الف)۔ غزوة خندق (ب)۔ غزوة بدر (ج)۔ غزوة خیبر (د)۔ غزوة تبوک

Cantt Public Education System

3- سورة الاحزاب کی رکوعات کی تعداد ہے۔

(الف) 7 (ب) 8 (ج) 9 (د) 10

4- سورة الاحزاب کی آیات کی تعداد ہے۔

(الف) 40 (ب) 49 (ج) 70 (د) 73

5- احزاب کے معنی ہے

(الف) قبیلے (ب) قومیں (ج) خاندان (د) گروہ

مختصر جواب دیں۔

س۔ سورة الاحزاب کی پہلی آیت میں رسول ﷺ کو کس بات سے منع کیا گیا ہے؟

س۔ خندق کس کے مشورے سے کھودی گئی؟

س۔ غزوہ احزاب کے دوران آزمائش کی گھڑیوں میں اہل ایمان کا کیا طرز عمل تھا؟

س۔ سب سے بہتر کون سادروہ ہے جو رسول ﷺ پر بھیجا جائے؟

س۔ ازواج مطہرات کا درجہ مومنین کے لیے کیا ہے؟

س۔ باہر نکلنے کے لیے ازواج مطہرات کو اور ان کے ذریعے مومن عورتوں کو کیا تلیقن کی گئی ہے؟

س۔ متنبی کسے کہتے ہیں؟

س۔ سورة الاحزاب میں دعوت میں آنے والوں کو کیا ہدایات دی گئی ہیں؟

س۔ کون سے واحد صحابی رسول ﷺ ہیں جن کا نام قرآن مجید میں آیا ہے؟

س۔ سورة الاحزاب کی آیت نمبر 35 میں مسلمان مردوں اور مسلمان عورتوں کی کیا صفات بیان ہوئی ہیں؟

27 جولائی تا 1 اگست 2020

(عید الاضحیٰ تعطیلات)

13 اگست تا 8 اگست 2020

سرگرمی	زرانغ	گھر کا کام	صفحہ نمبر	عنوان	تاریخ	دن
تفسیر معارف القرآن	کتابی مواد	الفاظ معنی	44	سورة الاحزاب آیات 69-73	6 اگست	جمعرات
	کتابی مواد/نوٹس	مشقی سوالات	44	آیات 69-73	7 اگست	جمعہ
	کتابی مواد/نوٹس	ترجمہ و تشریح	52-53	حدیث 11-12	8 اگست	ہفتہ

ورک شیٹ

معنی	الفاظ
	براء
	وجہیا
	قولا سدیداً
	عرضنا
	اشفقن
	ظلوما جھولا

س۔ اس سبق کی آیات میں اہل ایمان کو حضرت موسیٰ کی مثال دے کر کیا بات سمجھائی گئی ہے؟

س۔ آیت 73 کا ترجمہ لکھیں۔

س۔ دین اسلام میں نماز کی کیا اہمیت ہے؟

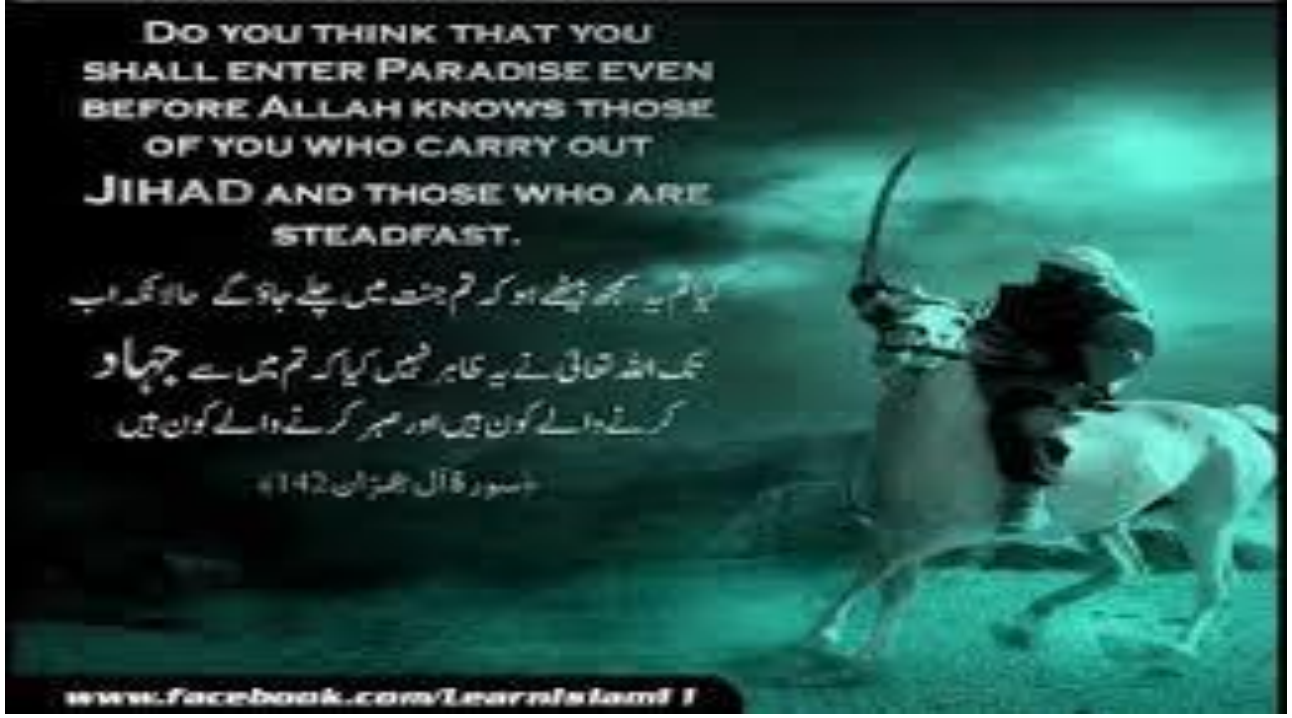
س۔ حی علی الفلاح کے کیا معنی ہیں؟

س۔ حدیث 12 کا ترجمہ تحریر کریں

10 اگست تا 15 اگست 2020

سرگرمی	زرائع	گھر کا کام	صفحہ نمبر	عنوان	تاریخ	دن
	کتابی مواد، نوٹس ورک شیٹ	ہجرت سے کیا مراد ہے؟ سورة النساء میں ہجرت کے بارے میں کیا حکم آیا ہے؟	75-78	ہجرت و جہاد	13 اگست	جمعرات
		-----	-----	-----	14 اگست	جمعہ
	کتابی مواد	جہاد کے فضائل بیان کریں	75-78	ہجرت و جہاد	15 اگست	ہفتہ





ورک شیٹ

س۔ ہجرت سے کیا مراد ہے؟

س۔ ہجرت کرنے والوں کو سورۃ النحل میں کیا بشارت دی گئی ہے؟

س۔ جہاد سے کیا مراد ہے؟

س۔ جہاد اکبر کسے کہتے ہیں؟

س۔ جہاد کی اقسام کتنی ہیں نام تحریر کریں؟

17 اگست تا 22 اگست 2020

سرگرمی	زرائع	گھر کا کام	صفحہ نمبر	عنوان	تاریخ	دن
	کتابی مواد، نوٹس	دہرائی	53	حدیث 13،14،15	20 اگست	جمعرات
	کتابی مواد/ نوٹس	ترجمہ و تشریح	54	حدیث 16	21 اگست	جمعہ
	کتابی مواد/ نوٹس	ترجمہ و تشریح	54	حدیث 17	22 اگست	ہفتہ

رمضان کے ایک روزہ کی اہمیت

حضرت ابو ہریرہ رضی اللہ عنہ سے روایت ہے کہ رسول اللہ صلی اللہ علیہ وسلم نے فرمایا! ”جو شخص رمضان کا ایک روزہ بھی بلا عذر شرعی (سفر اور مرض کے بغیر) چھوڑ دے، پھر مدت العمر اس کی تلافی کے لیے روزے رکھے، تب بھی ایک روزے کی کمی پوری نہ ہوگی۔ (ترمذی، ابوداؤد)



-crea-

لبيك اللهم لبيك

Ya ALLAH..

Give us the chance to offer Hajj

Allahumma aameen..





ورک شیٹ

س۔ خطبہ جمعہ کے دوران خاموشی قائم رکھنے کے متعلق حضور ﷺ کا کیا ارشاد ہے؟

س۔ نمازی کو مسجد میں کہاں بیٹھنا چاہیے؟

س۔ نماز جمعہ کے لیے لوگوں کی گردنوں پر پھلانگ کر اگلی صفوں میں پہنچنا کیسا ہے؟

س۔ حدیث نبوی ﷺ میں رمضان کے روزوں کا کیا اجر بتایا گیا ہے؟

س۔ روزے دار کے لیے رسول پاک ﷺ نے کون سی دو خوشیوں کی اطلاع دی ہے؟

س۔ حج کا اہم ترین رکن کون سا ہے؟

24 اگست تا 29 اگست 2020

سرگرمی	زرانع	گھر کا کام	صفحہ	عنوان	تاریخ	دن
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Cantt Public Education System

			نمبر			
تفسیر معارف القرآن	کتابی مواد، نوٹس	الفاظ معنی	45-46	سورة المتحننة آیات نمبر 6- 1 تعارف	27 اگست	جمعرات
		مشقی سوالات	45-46	سورة المتحننة آیات نمبر 6- 1	28 اگست	جمعہ
		مشقی سوالات	45-46	آیات 1-6	29 اگست	ہفتہ

ورک شیٹ

معنی	الفاظ
	تلقون
	تسرون
	ان یثقفو کم
	برء وا

س۔ حضرت ابراہیم نے اپنی قوم سے کیا کہا تھا؟

س۔ سورة المتحننة کی پہلی آیت میں کون سے صحابی کے حوالے سے مومنین کو ہدایات دی گئیں ہیں؟

س۔ حضرت حاطب بن ابی بلتعہ سے کیا غلطی سرزد ہوئی تھی؟

س۔ کفار کے ساتھ معاملہ کرنے میں کون سے نبی کی اتباع تلقین کی گئی ہے؟

س۔ جب اہل کفر مسلمانوں پر غلبہ پالیتے تو ان کا اہل ایمان کے ساتھ کیا سلوک ہوتا؟

اردو سلیبس برائے جماعت دہم

جولائی، 30 اگست، 2020

عمومی ہدایت، برائے طلباء والدین

1 - اردو کی لکھائی خوش خط کریں

2 - کام نیٹ کاپی پر کریں

3- حاشیہ ضرور لگائیں

- والدین سے درخواست ہے کہ چھٹیوں کو کار آمد بنانے کے لیے دیا گیا کام اپنی نگرانی میں کروائیں اور جہاں کہیں بھی ضرورت ہو متعلقہ آستانی سے رابطہ کریں۔

- ہمارا بنیادی مقصد یہ ہے کہ آپ کا تعلق اپنی تعلیم سے جڑا رہے اسی مقصد کے تحت آپ کے لیے تخلیقی اور 5تعلیمی سرگرمیوں سے بھر پور تعطیلات کا کام تیار کیا گیا ہے۔

۲۰ جولائی تا ۲۵ جولائی ۲۰۲۰

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
20 جولائی 2020	حمد	1 تا 9	بلند خوانی مشقی سوالات	کتابی مواد	حفیظ جالندھری کے بارے میں معلومات ویڈیو لنک https://www.youtube.com/watch?v=hScQMUXrOJc
21 جولائی 2020	حمد ملمع مضمون نویسی حب الوطنی	59 تا 66	تشریح بلند خوانی تحریر ی کام	نوٹس کتابی مواد	افسانہ ملمع میں اپنے پسندیدہ کردار کے بارے میں لکھیں اور وجہ بھی بتائیں کہ یہ کردار آپ کو کیوں پسند آیا
22 جولائی 2020	لمع اصناف سخن افسانہ	66 تا 68 58	مشقی سوالات تعریف (تحریر ی) ورک شیٹ	کتابی مواد کتابی مواد	ویڈیو لنک youtube.com/watch?v=ewtGuudDxUQ



1. درج ذیل الفاظ کے متضاد لکھیں۔

2. سبق ملمع کے متن مد نظر رکھ کر درست یا غلط پر نشان لگائیں۔

نمبر شمار	الفاظ	متضاد	الفاظ	درست	غلط
1	شمس	(الف) ”گاڑی ہمیشہ لیٹ رہتی ہے“ قلی نے کہا			
2	سرد	(ب) لڑکی کی ماموں کی بیماری کاخط ملا تھا۔			
3	تر	(ج) قلی ایک روپے کا سکھ پا کر خوش ہو گیا۔			
4	تاریکی	(د) چچا کے ہاں لڑکی کا استقبال خوش دلی سے کیا گیا۔			
5	خالق				
6	ثابت				

۲۷ جولائی تا یکم اگست ۲۰۲۰ (۳۱ اگست عید الاضحیٰ)

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
27 جولائی 2020	نعت	7 تا 10	بلند خوانی مشقی سوالات	کتابی مواد	شاعر ”احسان“ دانش کے بارے میں معلومات
28 جولائی 2020	نعت چغل خور لوگ کہانی	70 تا 75	تشریح بلند خوانی لوگ کہانی کی تعریف تحریر کریں۔	نوٹس کتابی مواد	اپنی نوٹ بک میں اپنی پسندیدہ کا ایک نعت یا شعر خوش خط تحریر کریں۔ ویڈیو لنک youtube.com/watch?v=nMF8zJjADR8
29 جولائی 2020	چغل خور جملہ معترضہ کہانی نویسی جس کاکام اسی کوساجھے	75 تا 78 77	مشقی سوالات تعریف بمعہ امثال ورک شیٹ دیئے گئے عنوان پر کہانی لکھیں۔	کتابی مواد کتابی مواد	کسی کی غیر موجود میں اس کی برائی کرنا یا کسی سے غلط باتیں منسوب کرنا فتنہ پروری ہے اس کے نقصانات پردس سے بارہ سطروں پر مشتمل نوٹ تحریر کریں۔



ورک شیٹ

1. دیئے گئے الفاظ کو جملوں میں استعمال کریں۔

الفاظ	جملے
غم گسار	
قرار	
یقین	
پیغام	
ذی وقار	

2. سبق ملمع کے متن مد نظر رکھیں اور قسین میں دینے گئے الفاظ میں سے درست لفظ چن کر خالی جگہیں پر کیجئے۔

1. چغلی کھانا چغل خور کی.....ہوتی ہے۔ (فطرت ، عادت، جبلت)
2. چغل خور نے کسان کی بیوی کو بتایا کہ وہ ہو گیا ہے۔ (باولا ، کوڑھی ، پاگل)
3. چغل خور نے کسان سے بعد ایک چغلی کھانے کی اجازت مانگی۔ (ایک ماہ ، چھ ماہ ، نو ماہ)
4. چغل خور کو چغل خور کہا جائے تو وہ (لڑپڑتا ہے ، بھاگ جاتا ہے ، ناراض ہوجاتا ہے)

۳ اگست تا ۸ اگست ۲۰۲۰

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
3 اگست 2020	اونٹ کی شادی (نظم)	138 تا 140	بلند خوانی مشقی سوالات	کتابی مواد	مزاحیہ شاعر دلاور نگار کے بارے میں معلومات حاصل کریں۔
4 اگست 2020	اونٹ کی شادی (نظم) نام دیومالی مضمون نویسی "تعلیم نسوان"	80 تا 83	تشریح بلند خوانی دیئے گئے عنوان پر مضمون لکھیں	نوٹس کتابی مواد	مولوی عبد الحق کے بارے میں معلومات حاصل کریں۔ ویڈیو لنک youtube.com/watch?v=YkcSiZeN2Qc
5 اگست 2020	نام دیومالی مبتدا اور خبر کے حوالے سے تقطیع کرنا۔	83 تا 85 6	مشقی سوالات تعریف بمعہ امثال ورک شیٹ	کتابی مواد کتابی مواد	ایک عام مالی اور نام دیومالی میں آپ جو فرق محسوس کرتے ہیں تحریر کریں۔ ویڈیو لنک youtube.com/watch?v=MKrhvE91HXc

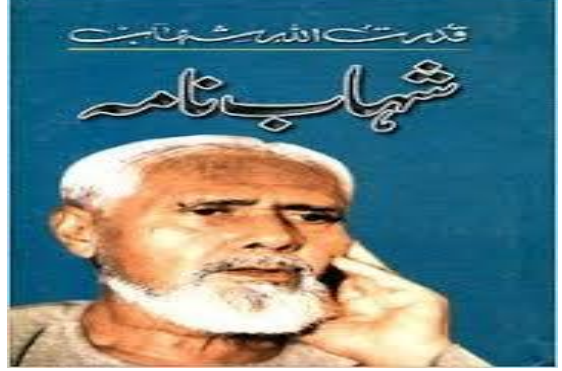
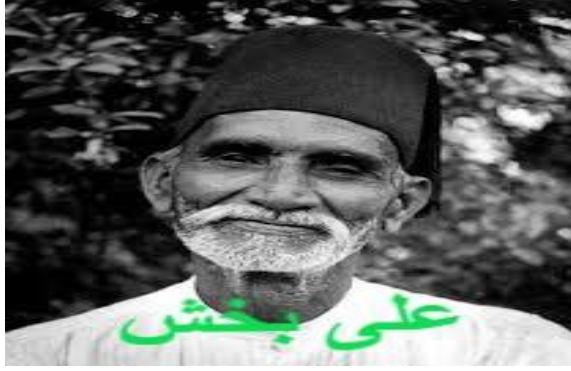


ورک شیٹ

1. ”نام دیومالی“ کے اہم اوصاف ترتیب وار لکھیں۔

۱۰ اگست تا ۱۵ اگست ۲۰۲۰

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
10 اگست 2020	مال گودام روڈ (نظم)	142 تا 145	بلند خوانی مشقی سوالات	کتابی مواد	شاعر محمود سرحدی کے بارے میں واقفیت حاصل کریں۔
11 اگست 2020	مال گودام روڈ (نظم) علی بخش کہانی نویسی ”نا اتفاقی کا انجام“	88 تا 91	تشریح بلند خوانی دیئے گئے عنوان پر کہانی تحریر کریں۔	نوٹس کتابی مواد	مصنف قدرت اللہ شہاب کا تفصیلی اور بھر پور تعارف حاصل کریں اور اپنی نوٹ بکس پر تحریر کریں۔ ویڈیولنک youtube.com/watch?v=av2K4lio1kc
12 اگست 2020	علی بخش علم بیان کی اصطلاحات تشبیہ۔ استعارہ ، اور ان کی قسمیں	91 تا 93	مشقی سوالات نوٹ بک پر تحریر کریں ورک شیٹ	کتابی مواد	ویڈیو لنک youtub.com/watch?v=Rc3GtYnC4SA



ورک شیٹ

سبق علی بخش کے مطابق دیے گئے الفاظ کی مدد سے جملے مکمل کیجئے۔

۱۔ قبضہ نہیں ملتا تو کھانے ----- (خصم کو ، کڑھی ، کھیر ، دھوپ)

۲۔ علی بخش کے مطابق اقبال اکثر ----- گنگنا تے تھے۔ (مسلمان کے لہو میں، خودی کو کر بلند اتنا ، کبھی اے حقیقت منتظر ، نورد نورو شوق ہے)

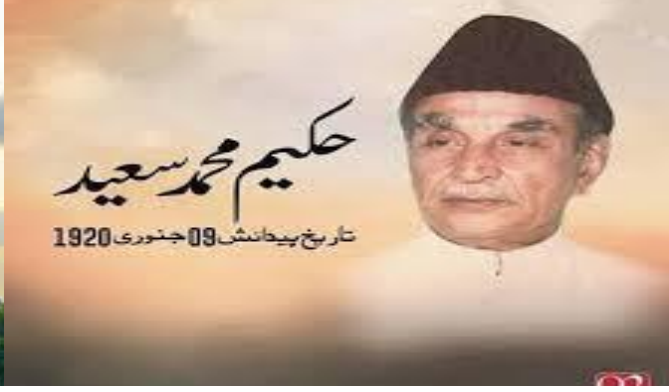
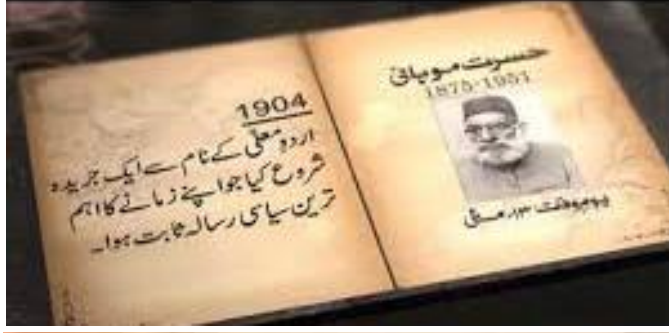
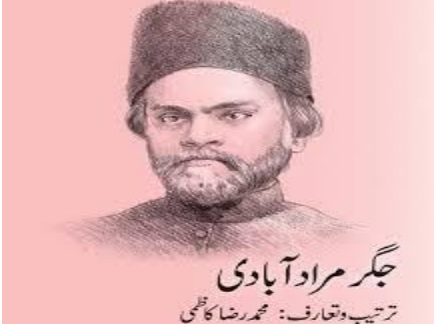
۳۔ ڈاکٹر صاحب بڑے ----- آدمی تھے۔ (عالم ، درویش، سیاسی ، دانش ور)

۴۔ پھر علی گڑھ سے ایک ----- لیڈی آگئی۔ (فرنج ، انڈین ، انگلش ، جرمن)

۵۔ کپتان مہابت خان علی بخش کو ایک نہایت مقدس ----- کی طرح عقیدت سے چہو کر اپنے سینے سے لگالیتا ہے۔ (تابوت ، کتاب چیز ، امانت)

۱۷ اگست تا ۲۲ اگست ۲۰۲۰

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
17 اگست 2020	غزل نمبر 1 مصیبت بھی راحت۔۔۔ غزل نمبر 2 آدمی آدمی سے ملتا ہے۔	148 تا 152 153	تشریح تشریح	نوٹس نوٹس	
18 اگست 2020	غزل نمبر 3 سر میں سودا بھی لیں۔۔۔	157 تا 159	بلند خوانی مشقی سوالات تشریح	کتابی مواد نوٹس	شاعر فراق کو گورکھپوری کے بارے میں معلومات حاصل کریں۔
19 اگست 2020	استنبول مطلع۔ مقطع ردیف۔ قافیہ	95 تا 101 150 154 تا 155	بلند خوانی مشقی سوالات تعریف مثال کے ساتھ تحریر کریں	کتابی مواد کتابی مواد ورک شیٹ	حکیم محمد سعید کے بارے میں واقفیت حاصل کریں اور نوٹ بک میں تحریر کریں۔ ویڈیو لنک youtub.com/watch?v=-Hf5tmfpC1c



ورک شیٹ

”انگور کھٹے ہیں“ کے عنوان پر دلچسپ کہانی تحریر کریں۔

۲۴ اگست تا ۲۹ اگست ۲۰۲۰

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
24 اگست 2020	غزل نمبر 4 یہ فخر تو حاصل ہے۔۔	161 تا 163	بلند خوانی مشقی سوالات	کتابی مواد	غزل کی شاعرہ ”ادا جعفری“ کے متعلق واقفیت حاصل کریں
25 اگست 2020	غزل نمبر 4 خطوط غالب	102 تا 105	تشریح بلند خوانی	نوٹس کتابی مواد	مرزا غالب کے خطوط کی تین خوبیاں نوٹ بک پر تحریر کریں۔

Cantt Public Education System

	کتابی مواد	مشقی سوالات دیئے گئے عنوان پر مضمون تحریر کریں۔	105 تا 107	خطوط غالب مضمون نویسی عیدین	26 اگست 2020
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