

DAV HZL Sr. Sec. School, Dariba
Class – X

S. No.	Subject	Holiday Homework
1.	Hindi	पत्र लेखन – एक औपचारिक एवं एक अनौपचारिक (हिन्दी कॉपी में)
2.	English Reader	Do holiday assignment (scroll down for assignment) *
3.	Mathematics	Revise Ch. 1 to 15
4.	Science	Bio. Solve questions based on complete syllabus of bio. from Oswal/CBSE/ any 4 sample papers in notebook and revise ch. no. 6, 7, 8, 9, 15 & 16
		Physics Write answer of given assignment (scroll down for assignment) *
		Chemistry. Write solution of chemistry questions from Oswal Sample papers - 1, 2, 3 & 4.
5.	S. St.	Eco.+ Geo. Learn Ch – 5 for test.(Eco) Prepare the notes on Conventional and Non- conventional source of energy.(Geo.)
		History Do the given 11 questions of chapter -1
		Civics Do extra question (Previous Year) *
6.	Computer	Learn short cut keys which use in MS-Excel

Holiday Assignment

Sub. – Physics

Class-X

1. Why does a ray of light bend from its path when it travels from one medium to other?
2. An object is placed between infinity and the pole of a convex mirror .Draw a ray diagram and also state the position, size and nature of image formed.
3. (a) Explain, why sun is visible two minutes before actual sunrise ?
(b) Why red colour use in dangerous signal?
4. State Snell's law of refraction. The refractive index of water and kerosene is 1.33 and 1.44 find refractive index of kerosene with respect to water
5. (a) what is hypermetropia? How it can be corrected. Show by the diagram writes its two cause.
(b) The sky appears dark to astronauts. Why?
6. (a) An object 1meter tall is placed on the principal axis of a convex lens and its 40 cm tall image is formed on the screen placed at a distance of 70 cm from the object .what is focal length of lens
(b) An object 3 cm in height is placed 20 cm from convex lens of focal length 12 cm. Find the nature, position and height of the image.
7. To find the focal length of a concave mirror, Sita Should choose which one of the following set-ups?
(a) A mirror holder and a screen holder
(b) A screen holder and a scale
(c) A Mirror holder and a screen holder and a scale
(d) A Mirror, a screen, a holder for them and a scale
8. To determine the focal of a convex lens by obtaining a sharp image of a distant object, the following steps were suggested which are not in proper sequence :
(I) Hold the lens between the object and screen.
(II) Adjust the position of the lens to form a sharp image.
(III) Select a suitable distance object.
(IV) Measure the distance between the lens and screen.
The correct sequence of steps to determine the focal length of the scale is
(a) III, I , II, IV (b) III, I, IV, II
(C) III, IV, II, I (d) I, II, III, IV
9. In the experiment to trace the path of a ray of light passing through a rectangular glass slab, four student tabulated the angle I, R and E as given below class. The student who has performed the experiment most carefully is

Student	A	B	C	D
I	30°	30 °	30 °	30 °
R	17 °	24 °	21°	19 °
E	28 °	30 °	32 °	30 °

(a) A (b) B (c) C (d) D
10. In order to determine the focal length of a convex lens by obtaining the image of distant object on a screen, the position of the screen should be
(a) Perpendicular to the plane of the convex lens (b) Parallel to the plane of the convex lens
(c) inclined at an angle of 30 °from plane of lens (d) Anywhere in any direction
11. A student wanted to pick up a concave mirror from three mirrors A, B, C lying on the table to find its focal length. He looks into mirror A, he find his enlarged and erect. When he looks in mirror B, his image is diminished and erect. When he looks in mirror C, his image is erect and of same size. Find the correct identification of A, B, C in respective order.

(Board Question)

Section A

Q.12-The absolute refractive indices glass and water are $\frac{4}{3}$ and $\frac{3}{2}$ respectively.If the speed of light in glass is 2×10^8 m/s, calculate the speed of light in (1)vacume ,(2)water. (2)

Q.13 -If the image formed by a mirror for all positions of the object placed in front of it is always erect and diminished, what type of mirror is it ? draw a ray diagram to justify your answer . Where and why do we generally use this mirror? (3)

Q.14- What is meant by power of lens? Define its S.I.unit.

Q.15-You have two lenses A and B of focal length +10 and -10 cm respectively. State the nature and powers of each lens. Which of the two lenses will form a virtual and magnified image of an object placed 8cm from the lens ? Draw a ray diagram to justify your answer. (5)

Q.16- One half of a convex lens of focal length 10 cm is covered with a black paper .Can such lens produce an image of a complete object placed at a distance of 30cm from the lens ? Draw the ray diagram to justify your answer (5)

Q.17-Akshay , sitting in the last row in his class, could not see clearly the words written on the blackboard. When the teacher noticed it he announced if any student sitting in the front row volunteer to exchange his seat with Akshay. Salman immediately agreed to exchange his seat with Akshay he could now see the words written on the blackboard clearly. The teacher thought it fit to send the message to Akshay's parents advising them to get his eyesight checked.

In the contents above answer the following questions:

- Which defect of vision is Akshay suffering from ? which type of lens is used to correct this defect?
- State the values displayed the teacher and Salman.
- In your opinion in what way can Akshay express his gratitude towards teacher and Salman?

Section-B (Practical Based Question)

Q .18- A student obtains a sharp image of the distant window(W) of the school laboratory on the screen(S) using the given concave mirror(M) to determine its focal length. Which of the following distances should be measure to get the focal length of the mirror?

- (A)MW (B)MS
(C)SW (D)MW-MS

Q.19- A student traces the path of a ray of light throughout a rectangular glass slab for the different values of angle of incidences. He observed all possible precautions at each step of the experiment. At the end of the experiment, on analyzing the measurements, which of the following conclusions is he likely to draw?

- [A] angle of incidence = angle of emergence < angle of refraction
[B] angle of incidence < angle of emergence < angle of refraction
[C] angle of incidence > angle of emergence > angle of refraction
[D] angle of incidence = angle of emergence > angle of refraction

Q.20- A student traces the path of a ray of light through a triangular glass prism for different values of angle of incidence. On analyzing the ray diagrams, which one of the following conclusions is likely to draw?

- [A] The emergent ray is parallel to the incident ray
[B] The emergent ray bends at an angle to the direction of the incident ray
[C] The emergent ray and the refracted ray are at right angles to each other
[D] the emergent ray is perpendicular to the incident ray

Q.21 - A 4cm tall object is placed on the principal axis of a convex lens. The distance of the object from the optical centre of the lens is 12cm and its sharp image is formed at a distance of 24cm from it on a screen on the other side of the lens. If the object is now moved a little away from the lens, in which way [towards the lens or away the lens] will he have to move the screen to get a sharp image of the object on it again? How will the magnification of the image be affected?

Holiday assignment – Grammar Practice work
Subject – English
Class – X

Read the following dialogue and then complete the report by transforming the sentences into reported speech.

Prerna: I am planning to buy a new car.

Priya: Which car do you want to buy?

Prerna: I want to buy the latest model of any popular company.

Priya: It is a good decision.

Prerna told Priya that (a) _____. Then Priya asked her (b) _____. Prerna replied that (c) _____. Priya (d) _____ a good decision.

Grasshopper: Please give me grain.

Ant: What were you doing in summer?

Grasshopper: I was dancing in summer.

Ant: Go! Dance all winter.

A grasshopper appealed to an ant (a) _____. The ant wanted to know from him (b) _____. The grasshopper replied that (c) _____. The angry ant told (d) _____ all winter.

Complete the following passage by filling in the correct preposition from the choices given:

Most of us fail in our efforts (a) _____ (off/at/from/with) self-improvement because our schemes are too ambitious and we never have time (b) _____ (to/on/beside/up) carry them out. We also make the fundamental error of announcing our resolution to everybody so that we look even more foolish when we slip back (c) _____ (in/at/down/into) our bad old ways. Aware of these pitfalls, this year I attempted (d) _____ (for/to/of/at) keep my resolution to myself.

Complete the story by writing the correct tense form (Past form), suitable adjectives and preposition.

[the verb be in past form: was/were, had been, was/were being].

It (1) _____ Sunday (be). Sunita (2) _____ (get up) late (3) _____ the morning and (4) _____ (be/ horrify) to see two (5) _____ persons talking to her father (6) _____ a (7) _____ manner. At once she (8) _____ (conclude) that they (9) _____ (be) builders, who (10) _____ (be/force) her father to sell the house to them (11) _____ throw away prices. Then she (12) _____ (realize) that now there (13) _____ (be) no need to worry as her father (14) _____ (be/sell) the house (15) _____ another builder who (16) _____ (be/give) him the right price and (17) _____ (be/go) to give them protection (18) _____ these men. Her father (19) _____ (be/inform) him (20) _____ the situation and he (21) _____ (reach) there (22) _____ 10 minutes and the matter (23) _____ (be/sort) out quickly. Sunita (24) _____ (feel relieve) that her father (25) _____ (be/finish) off the transactions the day (26) _____, otherwise these two men (27) _____ (will/be-force) her father to sell their house. The two (28) _____ looking men (29) _____ (cannot) do anything and they had to leave without uttering a word (30) _____ defense.

Winter Break Holiday Homework
Class -X (Civics)
Extra Questions

- Q.1 When was BJP formed? Mention its major ideologies.
- Q.2 Dynastic succession is the major challenge for political parties. Explain.
- Q.3 How is democracy accountable and responsive to the needs and expectations of the citizen? Analyze.
- Q. 4 Explain the factors that denote the successful working of democracy in India.
- Q.5" Democracy means delay in the decision making" Justify this statement.
- Q. 6 How does democracy produce an accountable, responsive and legitimate government.
- Q.7 Describe the positive and negative aspects of relationship between caste and politics.
- Q.8 "Politics based on caste identity alone is not good in democracy " Give your opinion
- Q. 9 Explain the reasons of social difference.
- Q.10 Explain how the federal experiment has been successful in the matter of formation of state in India.