

Holidays' Home Work Subject English Class 10th

- 1.Your school is organising an Art and Craft Mela on children's day. Being the captain of Fine Arts Club you are asked to purchase the artefacts of Andhra Pradesh for the same. Collect information about at least five to ten artefacts and draw their pictures in a scrapbook. Also,place an order for these artifacts to M/s Antique Artefacts Gallery ,Vishakhapatnam, AndhraPradesh.(Art Integrated Project)

2.Book Review on anyone of the following books.

- 1.Harry Potter Series by J.K Rowling
2. The Diary of a Young Girl by Anne Frank
3. The Invisible Man (Science Fiction) by H.G Wells
- 4.Oliver Twist (Charles Dickens)

Present Your book review in a scrap book under the following sub- titles :

- 1.About the author
 - 2.About the title
 - 3.Storyline/ plot
 - 4.Characterisation
 - 5.Which character did you like the most
 - 6.Message, theme
 - 7.Design the title page in your own way
- 3.Complete the following Worksheets from bbc Compacta
- 1.Five unseen passages for Comprehension (pg 3 to 18)
 - 2.Tenses (pg 232 to 237)
 - 3.Modals(pg255 to 257)

ग्रीष्मावकाश गृहकार्य

दसवीं हिंदी

1. आंध्रप्रदेश के भोजन की विशेषताएँ लिखकर एक प्रोजैक्ट बनाइए। (चित्र बनाकर, पेस्ट नहीं करेंगे)
2. दस संदेश लेखन (अलग अलग विषयों पर) लिखिए।
3. गिरते हुए नैतिक मूल्यों पर एक अनुच्छेद लिखिए।
4. सरल, संयुक्त और मिश्र वाक्यों के दस-दस उदाहरण लिखिए।

.....	} ← प्रेषक का नाम एवं पता
.....	
.....	
दिनांक :	
.....	← संबोधन
.....	← यथा योग्य अभिवादन
.....	} ← कुशल क्षेम ज्ञापन
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.....	
.....	} ← मुख्य विषय वस्तु
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.....	
.....	} ← समापन
.....	
.....	संबंध का उल्लेख
.....	प्रेषक का नाम

इस प्रारूप के आधार पर दो पत्र लिखिए।

Holiday homework

Class : 10th (Maths)

Chapter 1 Real numbers

1. Given that $\text{HCF}(135, 225) = 45$, find the $\text{LCM}(135, 225)$
2. If $xy = 180$ and $\text{HCF}(x, y) = 3$ then find the $\text{LCM}(x, y)$
3. Prove that $\sqrt{5}$ is an irrational number
4. Prove that $2\sqrt{3} - 4$ is irrational
5. Prove that $2 - \sqrt{5}$ is irrational, given that $\sqrt{5}$ is irrational
6. 3 bells ring at an interval of 4, 7 and 14 minutes. All the three bells rang at 6 a.m. when will the three bells ring together next?
7. Find the L.C.M of 64 and 120
8. Write all the prime numbers and composite numbers between 80 and 100.
9. Find the greatest number which divides 245 and 1029 leaving remainder 5 in each case.
10. Show that the number $11 \times 13 \times 15 \times 17 + 17$ is a composite number
11. If a, b are co prime numbers then HCF of a and b is
12. Check whether 6^n can end with the digit 0 for any natural number n .

Chapter 2 : Polynomials

1. If one of the zeroes of the quadratic polynomial $(K-1)x^2 + Kx + 1$ is -3 , then find the value of K .
2. Find a quadratic polynomial whose zeroes are -3 and 4 .
3. Find the values of a and b if the zeroes of the quadratic polynomial $x^2 + (a+1)x + b$ are 2 and -3 .
4. Find the zeroes and verify the relations between the zeroes and the Coefficients.
 - a. $3x^2 + 4x - 4$
 - b. $5x^2 + 12x + 7$
 - c. $4x^2 + 5\sqrt{2}x - 3$
5. Find a quadratic polynomial, the sum and product of whose zeroes are $\sqrt{2}$ and -3 , respectively
6. If α and β are the zeroes of the polynomial $x^2 + x - 12$ then find the value of

7. (a) $\alpha^2 + \beta^2$ (b) $\frac{1}{\alpha} + \frac{1}{\beta} - 2\alpha\beta$ (c) $\alpha^3 + \beta^3$
 8. Obtain all the zeroes of $x^4 + 4x^3 - 2x^2 - 20x - 15$, if two zeroes are $\sqrt{5}$ and $-\sqrt{5}$

Chapter 3 Pair of linear equations in two variables.

1. For the pair of equations to have infinitely many solutions. The value of λ should be 1. Is the statement true? Give reasons

$$\lambda x + 3y = -7$$

$$2x + 6y = 14$$

2. For which values of p and q , will the following pair of linear equations have infinitely solutions?

$$4x + 5y = 2$$

$$(2p+7q)x + (p+8q)y = 2q-p+1$$

3. Solve the following pair of linear equations:

$$21x + 47y = 110$$

$$47x + 21y = 162$$

- 4. Solve for x and y : $41x + 53y = 135$, $53x + 41y = 147$**

5. Solve $ax + by = a - b$; $bx - ay = a + b$

6. Solve $2(3x - y) = 5xy$; $2(x + 3y) = 5xy$

7. For what value of k system of equation has coincident lines

$$3x - y + 8 = 0 \quad 6x - ky - 16 = 0$$

8. Draw the graphs of the pair of linear equations $x - y + 2 = 0$ and $4x - y - 4 = 0$.

Calculate the area of the triangle formed by the lines so drawn and the x -axis.

9. For which values of a and b , will the following pair of linear equations have infinitely many solutions?

$$x + 2y = 1$$

$$(a-b)x + (a+b)y = a+b-2$$

10. Find the value of p in the following pair of equations:

i) $3x - y - 5 = 0$ and $6x - 2y - p = 0$

if the lines represented by these equations are parallel.

11. Find whether the following pair of linear equations are consistent or inconsistent

$$2x - 3y = 8 \quad ; \quad 4x - 6y = 9$$

12. For which values of p does the following pair of equations will have a unique solution.

$$4x + py + 8 = 0 \quad ; \quad 2x + 2y + 2 = 0$$

13. The angles of a triangle are x , y and 40° . The difference between the two angles x and y is 30° . Find x and y .

14. Two numbers are in the ratio $5:6$. If 8 is subtracted from each of the number ratio becomes $4:5$. Find the numbers.

Chapter 15 Probability

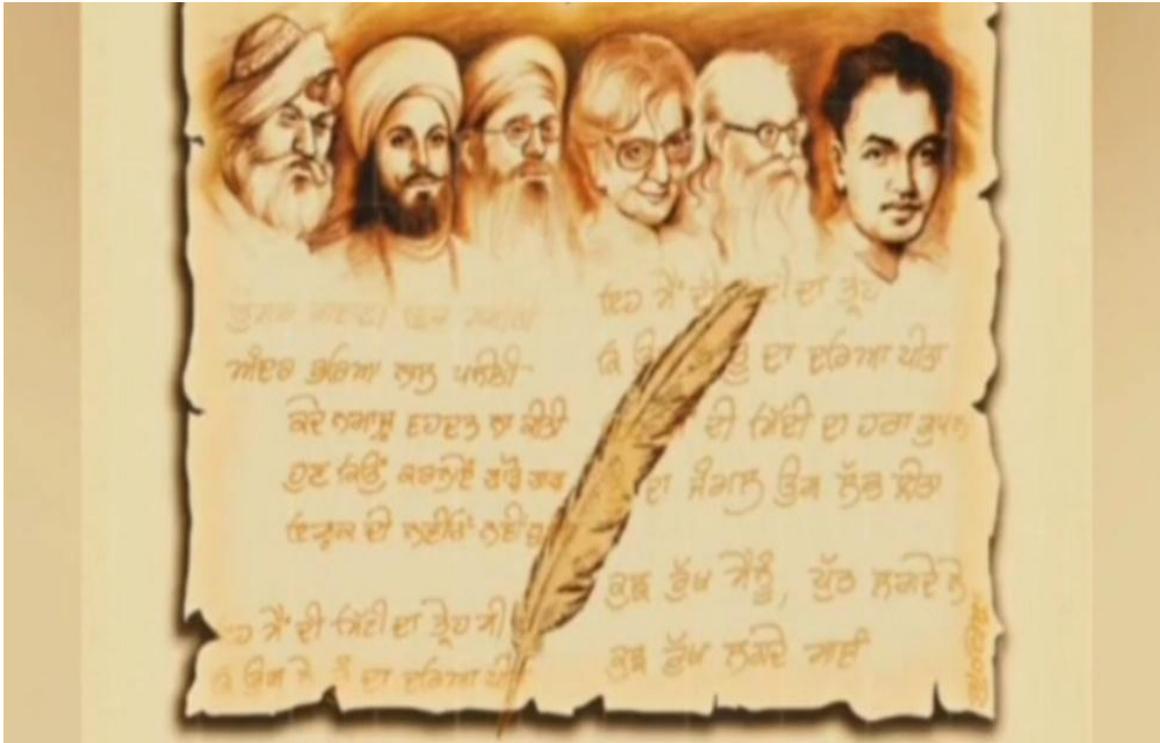
1. There are 1000 sealed envelopes in a box, 10 of them contain a cash prize of Rs 100 each, 100 of them contain a cash prize of Rs 50 each and 200 of them contain a cash prize of Rs 10 each and rest do not contain any cash prize. If they are well shuffled and an envelope is picked up out, what is the probability that it contain no cash prize?
2. Box A contain 25 slips of which 19 are marked Re 1 and other are marked Rs 5 each. Box B contain 50 slips of which 45 are marked Re 1 each and other are marked Rs 13 each. Slips of both boxes are poured into a third box and reshuffled, A slip is drawn at random. What is the probability that is marked other than Re 1?
3. In a game, the entry fee is Rs 5. The game consists of a tossing a coin 3 times, If one or two head show, Sweta gets her entry fee back. If she throws 3 heads, she receives double the entry fee. Otherwise, she will lose. For tossing a coin three times, find the probability that she
 - (i) Loses the entry fee?

- (ii) Gets double entry fee?
4. At a fete, cards bearing numbers 1 to 1000, one number on one card, are put in a box. Each player selects one card at random and that card is not replaced. If the selected card has a perfect square greater than 500, the player wins a prize. What is the probability that?
- (i) the first player wins the prize?
- (ii) the second player wins a prize, if the first has won?
5. A lot consists of 48 mobile phones of which 42 are good, only 3 have minor defects and 3 have major defects. Varnika will buy a phone, if it is good, but the trader will only buy a mobile, if it has no major defect. One phone is selected at random from the lot.
- probability that it is
- (i) Acceptable to Varnika?
- (ii) Acceptable to trader?
6. There are 1000 sealed envelopes in a box, 10 of them contain a cash prize of ₹ 100 each, 100 of them contain a cash prize of ₹50 each and 200 of them contain a cash prize of ₹10 each and rest do not contain any cash prize. If they are well shuffled and an envelope is picked up out, what is the probability that it contains no cash prize?
7. A jar contains 24 marbles, some are green and others are blue. If a marble is drawn at random from the jar, the probability that it is green is $\frac{2}{3}$. find the number of blue balls in the jar?

PROJECT

Make the working model of theorems of chapter circle by using hard sheet or wooden cardboard.

ਪਿਆਰੇ ਬੱਚਿਓ! ਆਪਣੀਆਂ ਗਰਮੀਆਂ ਦੀਆਂ ਛੁੱਟੀਆਂ ਵਿੱਚ ਹੇਠ ਲਿਖੇ ਕਿਸੇ ਵੀ ਪੰਜਾਬੀ ਸਾਹਿਤਕਾਰ ਬਾਰੇ ਪੜ੍ਹ ਕੇ ਆਪਣੀ ਜਾਣਕਾਰੀ



ਚ ਵਾਧਾ ਕਰੋ-

- ਭਾਈ ਵੀਰ ਸਿੰਘ ਜੀ
- ਪ੍ਰੋਫੈਸਰ ਪੂਰਨ ਸਿੰਘ
- ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ
- ਸੁਰਜੀਤ ਪਾਤਰ

ਇਹਨਾਂ ਬਾਰੇ ਪੁੱਛਿਆ ਜਾਵੇਗਾ-

ਮੁੱਢਲਾ ਜੀਵਨ, ਕਿੱਤਾ, ਪ੍ਰਸਿੱਧ ਸਾਹਿਤਕ ਰਚਨਾਵਾਂ, ਸਾਹਿਤਕ ਪ੍ਰਾਪਤੀਆਂ (ਪੁਰਸਕਾਰ)

2. ■■■■■■

ਉੱਪਰ ਦਿੱਤੀ ਜਾਣਕਾਰੀ ਨੂੰ ਪੜ੍ਹ ਕੇ ਸ਼ੀਟ 'ਤੇ ਸੁਹਣੀ ਲਿਖਾਈ ਵਿੱਚ ਲਿਖੋ ।

ਕੀ ਤੁਸੀਂ
ਕਦੇ ਜਾਣਨ ਦੀ ਕੋਸ਼ਿਸ਼ ਕੀਤੀ ਹੈ ?
ਜੇ ਨਹੀਂ ਤਾਂ ਹੁਣ ਜਾਣੋ ।

- ਸ੍ਰੀ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਵਿਚ 1430 ਅੰਗ ਹਨ ।
- ਸ੍ਰੀ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਵਿਚ 10, 24, 000 ਅੱਖਰ ਹਨ ।
- ਸ੍ਰੀ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਵਿਚ 13 ਪ੍ਰਦੇਸ਼ਿਕ ਭਾਸ਼ਾਵਾਂ ਦੀ ਵਰਤੋਂ ਕੀਤੀ ਗਈ ਹੈ ।
- ਸ੍ਰੀ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਦੀ ਪ੍ਰਮੁੱਖ ਭਾਸ਼ਾ ਪੰਜਾਬੀ ਹੈ ।
- ਸ੍ਰੀ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਵਿਚ 6 ਸਿੱਖ ਗੁਰੂਆਂ, 15 ਉੱਚੀਆਂ-ਨੀਵੀਆਂ ਜਾਤੀਆਂ ਦੇ ਭਗਤਾਂ, 4 ਗੁਰੂ ਘਰ ਦੇ ਨਿਕਾਟਵਰਤੀ ਸਿੱਖ ਅਤੇ 11 ਭਾਣੀ ਦੀ ਬਾਣੀ ਅੰਕਿਤ ਹੈ ।
- ਸ੍ਰੀ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਵਿਚ ਕੁਲ ਸ਼ਬਦਾਂ, ਸਵੈਯਾਂ, ਸਲੋਕਾਂ ਦੀ ਸੰਖਿਆ 5894 ਹੈ ।
- ਸ੍ਰੀ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਵਿਚ ਵੱਖ-ਵੱਖ ਧਰਮਾਂ ਦੇ ਲੋਕਾਂ ਦੁਆਰਾ ਲਏ ਗਏ ਈਸ਼ਵਰ ਦੇ ਨਾਮ ਦਾ ਕਈ ਵਾਰ ਪ੍ਰਯੋਗ ਹੋਇਆ ਹੈ ਜਿਵੇਂ ਕਿ ਹਰਿ ਦਾ 8244 ਵਾਰ, ਪ੍ਰਭੂ 1371, ਗੋਬਿੰਦ 475, ਠਾਕੁਰ 216, ਰਾਮ 2533, ਗੋਪਾਲ 491, ਨਾਰਾਇਣ 85, ਅੱਲ੍ਹਾ 49, ਖੁਦਾ 17, ਵਾਹਿਗੁਰੂ 16, ਪਾਰਬ੍ਰਹਮ 324, ਕਰਤਾਰ 228 ਆਦਿ । ਪਰ ਇਹਨਾਂ ਸਾਰਿਆਂ ਨਾਵਾਂ ਨਾਲ ਨਿਰੰਕਾਰ ਪ੍ਰਭੂ ਨੂੰ ਹੀ ਸੰਬੋਧਨ ਕੀਤਾ ਜਾਂਦਾ ਹੈ ।
- ਸ੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਦੇ ਦਰਬਾਰ ਵਿਚ ਸਾਰਿਆਂ ਧਰਮਾਂ ਦੇ 52 ਕਵੀ ਸਨ ।

ਦੇਸੀ ਮਹੀਨਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਉੱਪਰ ਦਿੱਤੇ ਗਏ ਚਾਰਟ ਨੂੰ ਦੇਖ ਕੇ ਆਪਣੀ ਕਲਾ ਦਾ ਪ੍ਰਗਟਾਵਾ ਕਰਦੇ ਹੋਏ ਇੱਕ ਹੋਰ ਨਵਾਂ ਚਾਰਟ ਬਣਾਓ।

ਪੰਜਾਬ ਦੇ ਮੇਲੇ ਅਤੇ ਤਿਉਹਾਰ



CLASS : X

SUBJECT: BIOLOGY

HOLIDAY HOMEWORK

TOPIC: LIFE
PROCESSES

- Q1.** Why do herbivores have longer, small intestine than carnivores? **(1 marks)**
- Q2.** Write the balanced chemical equation for the process of photosynthesis.
How photosynthesis occurs in desert plants? **(1 mark)**
- Q3.** In single celled organisms diffusion is sufficient to meet all their requirements of food, exchange of gases or removal of wastes but it is not in case of multicellular organisms. Explain the reason for this difference. **(2 marks)**
- Q4.** Draw a neat labeled diagram of human alimentary canal. **(2 marks)**
- Q5.** Explain the process of nutrition in Amoeba. **(2 marks)**
- Q6.** How do guard cells regulate the opening and closing of the stomata? **(2 marks)**
- Q7.** Explain exchange of gases in humans. **(3 marks)**
- Q8.** State the role of the following in human digestive system: **(3 marks)**
- (a) Digestive enzymes
 - (b) Hydrochloric acid (Hcl)
 - (c) Villi
- Q9.** Draw a diagram of human respiratory system and label the following: **(3marks)**
- (a) Part where air is filtered by fine hairs and mucus
 - (b) Part which terminates in balloon like structures
 - (c) Part which separates chest cavity from abdominal cavity
 - (d) Part where exchange of gases takes place.
- Q10.** Draw a neat labeled diagram of opened and closed stomata. **(3marks)**

Chemistry Worksheet (X)

CHEMICAL REACTIONS AND EQUATIONS

A) On the A-4 sheet show either pictorial representation collage 2D or 3D image using any waste material available at home:

Topic:- Examples of chemical in daily life.

- B) You can represent your art integration work illustrating corrosion or rancidity covering factors affecting them and ways to prevent it.**
- C) Give 10 examples of redox reaction. Mention the oxidising and reducing agents in it.**

Worksheet

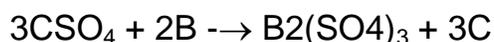
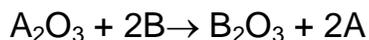
Q 1 . The marble statues often slowly get corroded when kept in open for a long time .Assign a suitable explanation.

Q 2. You are given the following materials

(1) marble chips (2)dilute hydrochloric acid (3)Zinc granules ,identify the type of reaction when marble chips and Zinc granules are added separately to acid taken in two test tubes.

Q3. The gases hydrogen & chlorine do not react with each other even if kept together for a long time . However, in the presence of sunlight , they readily combine . What does actually happen ?

Q 4. A,B & C are three elements which undergo chemical reactions in the following way



Answer the following

(A) Which element is most reactive ? (B) Which element is least reactive ?

Q5. A water insoluble substance 'X' on reacting with dilute H_2SO_4 released a colourless and odourless gas accompanied by brisk effervescence. When the gas was passed through water , the solution obtained turn blue litmus red . On bubbling the gas through lime water , it initially became milky and the milkiness disappeared when the gas was passed in excess . Identify the substance 'X' and write the chemical equations of the reaction involved

Q6. If you collect silver coins and copper coins. After some day a black coating on silver coins and a green coating on copper coins. Which chemical phenomenon is responsible for these coatings? Write the chemical name of black

and green coatings

Q.7. An aqueous solution of metal nitrate P reacts with sodium bromide solution to form yellow ppt of compound Q which is used in photography. Q on exposure to sunlight undergoes decomposition reaction to form metal present in P along with reddish brown gas. Identify P & Q. Write the chemical reaction & type of chemical reaction.

Q.8. A substance X used for coating iron articles is added to a blue solution of a reddish brown metal Y, the color of the solution gets discharged. Identify X and Y & also the type of reaction.

Q.9. A student burnt a metal A found in the form of ribbon. The ribbon burnt with a dazzling flame & a white powder B is formed which is basic in nature. Identify A & B. Write the balanced chemical equation.

Q.10. Why magnesium ribbon cleaned before burning?

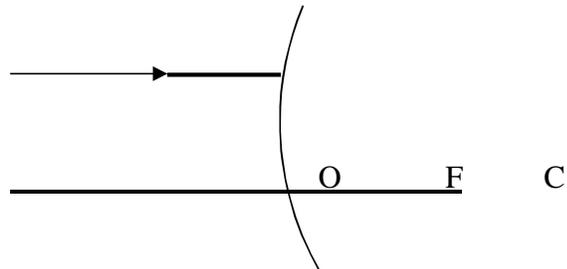
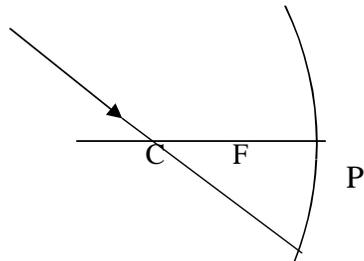
Q.11. During electrolysis of water gas collected in one test tube is double than other why?

Balance the following chemical equation:

1. $__ \text{AgI} + __ \text{Na}_2\text{S} \rightarrow __ \text{Ag}_2\text{S} + __ \text{NaI}$
2. $__ \text{Ba}_3\text{N}_2 + __ \text{H}_2\text{O} \rightarrow __ \text{Ba}(\text{OH})_2 + __ \text{NH}_3$
3. $__ \text{CaCl}_2 + __ \text{Na}_3\text{PO}_4 \rightarrow __ \text{Ca}_3(\text{PO}_4)_2 + __ \text{NaCl}$
4. $__ \text{FeS} + __ \text{O}_2 \rightarrow __ \text{Fe}_2\text{O}_3 + __ \text{SO}_2$
5. $__ \text{PCl}_5 + __ \text{H}_2\text{O} \rightarrow __ \text{H}_3\text{PO}_4 + __ \text{HCl}$
6. $__ \text{As} + __ \text{NaOH} \rightarrow __ \text{Na}_3\text{AsO}_3 + __ \text{H}_2$
7. $__ \text{Hg}(\text{OH})_2 + __ \text{H}_3\text{PO}_4 \rightarrow __ \text{Hg}_3(\text{PO}_4)_2 + __ \text{H}_2\text{O}$
8. $__ \text{HClO}_4 + __ \text{P}_4\text{O}_{10} \rightarrow __ \text{H}_3\text{PO}_4 + __ \text{Cl}_2\text{O}_7$
9. $__ \text{CO} + __ \text{H}_2 \rightarrow __ \text{C}_8\text{H}_{18} + __ \text{H}_2\text{O}$
10. $__ \text{KClO}_3 + __ \text{P}_4 \rightarrow __ \text{P}_4\text{O}_{10} + __ \text{KCl}$

1. What type of image is formed on a cinema screen?

2. A concave mirror is a part of sphere of radius 40 cm. What is the focal length of the mirror?
3. Radius of curvature of a mirror is 20 cm. What type of mirror is it?
4. Magnification of a mirror is $+2/3$. What type of mirror is it?
5. Complete the following diagrams:-



6. Magnification of a mirror is -1 . What type of mirror is it? What is the position of object and image? Give the nature of image.
7. Name the type of mirror used:-
 - (i) as a reflector in search light
 - (ii) as side view mirror in vehicles.
 - (iii) by the dentist
 - (iv) as a shaving mirror
8. Wherever you may stand in front of mirror, your image is always erect & same sized, what type of mirror is it?
9. Radius of curvature of a mirror is $+24\text{cm}$. Name the kind of mirror and give the characteristics of the image formed by it.
10. Refractive index of glass is 1.65, what is the speed of light in glass?
11. If refractive indices of alcohol & water are 1.36 and 1.33 respectively, which of the two is optically denser?

12. Focal length of a lens is 25 cms. What is its power?
13. Where should an object be placed for using a convex lens as magnifying glass?
14. Power of a lens is 0.4 D. what is its focal length?
15. Why does a stick, partly immersed in water, appear to be bent? Explain with a diagram.
16. A small electric lamp is placed at the focus of a convex lens. What is the nature of the beam of light produced by the lens?
17. Light travels from rarer medium 1 to denser medium 2. Angle of incidence & refraction are 45° & 30° resp.
 - (i) Calculate the refractive index of second medium with respect to the first.
 - (ii) Calculate the refractive index of the first medium with respect to the second.
18. Find the position, nature and size of the image of an object 3 cm high placed at a distance of 9 cm from a concave mirror of focal length 18 cm.

($v = 18$ cm, $h = 6$ cm)
19. An object 4 cm high is placed 40 cm in front of a concave mirror of focal length 20 cm. find the distance from the mirror, at which a screen be placed to obtain a sharp image.

($v = -40$ cm)
20. A convex lens has focal length of 30 cm. at what distance should object be placed from the lens so that it forms an image at 60 cm on other side of the lens? Find the magnification produced by the lens. ($v = -60$ cm, $m = -1$)
21. An arrow 2.5cm high is placed at a distance of 25 cm from a diverging mirror of focal length 20 cm. find the nature, position and size of the image formed

(11.1, 1.11cm).
22. The image formed by a convex mirror of focal length 30 cm is a quarter of the object, what is the distance of object from the mirror?

(-90 cm)
23. An erect image 3 times the size of the object is obtained with a concave mirror of radius of curvature 36 cm. calculate the position of the object.

(-12cm)
24. A concave lens has focal length of 15 cm. at what distance should an object be placed from the lens so that it forms an image at 10 cm from the lens? Find the magnification of the lens.

(-30cm, $1/3$)
25. A 2 cm tall object is placed perpendicular to the principal axis of a convex lens of focal length 10 cm. the distance of the object from the lens is 15 cm. find the nature, position and size of the image. (30cm, -4cm)
26. The image obtained with a convex lens is erect and its length is 4 times the length of the object. If the focal length of the lens is 20 cm, calculate the object and image distance.

(-15 cm, - 60cm)
27. A concave lens of focal length 25 cm and a convex lens of focal length 20 cm are placed in contact with each other. What is the power of this combination? What is the focal length of the combination?

(1D, 1m)
28. Find the focal length and nature of lens which should be placed in contact with a lens of focal length 10 cm so that the power of the combination becomes 5 dioptre.

(-20cm, concave)
29. what is meant by power of a lens ? you have three lens L1 ,L2, L3 of powers +10D,+5D and -10D respectively . State the nature and focal length of each lens . Explain which of the three lenses will form a virtual and magnified image of an object placed at 15 cm from the lens .Draw the ray diagram in support of your answer
30. The refractive indices of glass and water with respect to air are $3/2$ and $4/3$ respectively..Calculate the refractive index of water with respect to glass is

31 The following table gives the values of refractive indices of a few media

	1	2	3	4	5
Medium	Water	Crown glass	Rock salt	Ruby	Diamond
Refractive Index	1.33	1.52	1.54	1.71	2.42

Use this table to give an example of (i) a medium pair so that light speeds up when it goes from one of these media to another, (ii) a medium pair so that light slows down when it goes from one of these media to another.

32 Draw a ray diagram to show refraction of light through a glass slab and label on it the following:

- (i) Incident ray
- (ii) Refracted ray
- (iii) Emergent ray
- (iv) Lateral shift (displacement)

33 The refractive index of Ruby is 1.71. What is meant by this statement?

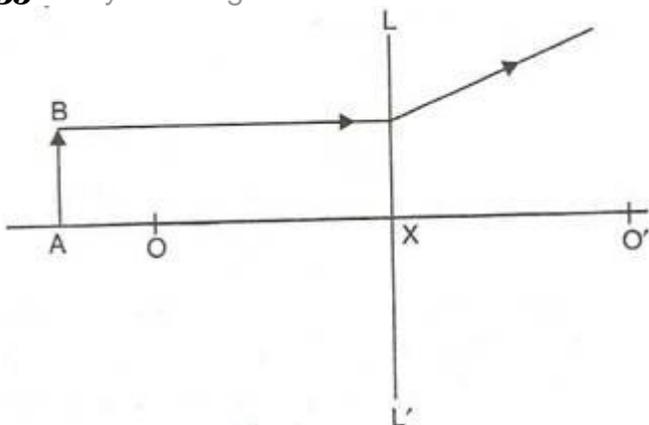
34 One half of a convex lens is covered with a black paper.

(a) Show the formation of image of an object placed at $2F_1$, of such covered lens with the help of ray diagram. Mention the position and nature of image.

(b) Draw the ray diagram for same object at same position in front of the same lens, but now uncovered.

Will there be any difference in the image obtained in the two cases? Give reason for your answer.

35 Study the diagram below.



- (i) Name the lens LL' .
- (ii) What are the points O , O' called?
- (iii) Complete the diagram to form the image of the object AB .
- (iv) State three characteristics of the image.

Holidays Home Work

Class: 10th

Subject: Social Science

1. Every student has to compulsorily undertake one project on the following topics:
A. Consumer Awareness B. Social Issues C. Sustainable Development
2. Objectives: The overall objective of the project work is to help students gain an insight and pragmatic understanding of the theme and see all the Social Science disciplines from interdisciplinary perspective. It should also help in enhancing the Life Skills of the students. Students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report. If required, students may go out for collecting data and use different primary and secondary resources to prepare the project. If possible, various forms of art may be integrated in the project work.
3. The distribution of marks over different aspects relating to Project Work is as :
 1. Content accuracy, originality and analysis : 2 Marks
 2. Presentation and creativity: 2 Marks
 3. Viva: 1 Mark
4. The projects and models prepared should be made from eco-friendly products without incurring too much expenditure.
5. The Project Report can be handwritten.
6. The Project Work needs to enhance cognitive, affective and psychomotor skills