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Q1.	Draw a labelled ray diagram to show the path of the reflected ray corresponding to the ray which is incident obliquely to the principal axis, towards the pole of a convex mirror. Mark the angle of incidence and angle of reflection on it.	2 Marks
Q2.	To find the image distance for varying object distances in case of a convex lens of focal length 15 cm, a student obtains on a screen a sharp image of a bright object by placing it at 20 cm distance from the lens. After that he gradually moves the object away from the lens and each time focuses the image on the screen.	2 Marks
	1. In which direction-towards or away from the lens does he move the screen to focus the object? 2. How does the size of image change?	
	3. Approximately at what distance does he obtain the image of magnification −1?	
	4. How does the intensity of image change as the object moves farther and farther away from the lens?	
Q3.	List four properties of the image formed by a plane mirror.	2 Marks
Q4.	What happens when an aqueous solution of sodium sulphate reacts with an aqueous solution of barium chloride? State the physical conditions of reactants in which the reaction between them will not take place. Write the balanced chemical equation for the reaction and name the type of reaction.	2 Marks
Q5.	What is observed when a solution of sodium sulphate is added to a solution of barium chloride taken in a test tube? Write equation for the chemical reaction involved and name the type of reaction in this case.	2 Marks
Q6.	A knife which is used to cut a fruit was immediately dipped into water containing drops of blue litmus solution. If the colour of the solution is changed to red, what inference can be drawn about the nature of the fruit and why?	2 Marks
Q7.	What happens when wood is burnt in a limited supply of oxygen? Name the residue left behind after the reaction and state two advantages of using this residue as a fuel over wood.	2 Marks
Q8.	Name the component of sunlight which facilitates drying of wheat after harvesting.	2 Marks
Q9.	A star sometimes appears brighter and some other times fainter. What is this effect called? State the	2 Marks

# reason for this effect.

- Q10. "A concave mirror of focal length 'f' can form a magnified erect as well as an inverted image of an object placed in front of it." Justify this statement stating the position of the object with respect to the mirror in each case for obtaining these images.
- **Q11.** A compound 'X' on heating with excess conc. sulphuric acid at 443K gives an unsaturated compound 'Y'. 'X' **2 Marks** also reacts with sodium metal to evolve a colourless gas 'Z'. Identify 'X', 'Y' and 'Z'. Write the equation of the chemical reaction of formation of 'Y' and also write the role of sulphuric acid in the reaction.
- Q12. Explain with the help of a diagram, how we are able to observe the sunrise about two minutes before the **2 Marks** sun gets above the horizon.

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Q13.	Show the formation of magnesium oxide by the transfer of electrons.	2 Marks
Q14.	The linear magnification produced by a spherical mirror is +3. Analyse this value and state the (i) type of mirror and (ii) position of the object with respect to the pole of the mirror. Draw ray diagram to show the formation of image in this case.	2 Marks
Q15.	Give an example of a decomposition reaction. Describe an activity to illustrate such a reaction by heating.	2 Marks
Q16.	What is the minimum number of rays required for locating the image formed by a concave mirror for an object. Draw a ray diagram to show the formation of a virtual image by a concave mirror.	2 Marks
Q17.	Show the formation of $Na_2O$ by the transfer of electrons.	2 Marks
Q18.	Mention the pathway of urine in our body starting from the organ of its formation to its excretion. What will happen if the tubular part of the nephron does not work properly?	2 Marks
Q19.	"Conversion of ethanol to ethanoic acid is an oxidation reaction." Justify this statement giving the relevant equation for the chemical reaction involved.	2 Marks
Q20.	Explain why the planets do not twinkle but the stars twinkle.	2 Marks
Q21.	<ul> <li>Draw a ray diagram to show the refraction of light through a glass prism. Mark on it,</li> <li>1. The incident ray,</li> <li>2. The emergent ray,</li> <li>3. The angle of deviation.</li> </ul>	2 Marks
Q22.	<ul> <li>In the figure given below a narrow beam of white light is shown to pass through a triangular glass prism.</li> <li>After passing through the prism it produces a spectrum XY on a screen.</li> <li>1. State the colour seen at X and Y.</li> <li>2. Why do different colours of white light bend through different angles with respect to the incident beam of light?</li> </ul>	2 Marks
Q23.	List four precautions which a student should observe while preparing a temporary mount of a leaf peel to show stomata in his school laboratory.	2 Marks
Q24.	State one role of each of the following in human digestive system:	2 Marks

- 1. Hydrochloric acid
- 2. Villi
- 3. Anal Sphincter

4. Lipase

- Q25. 1. Name one gustatory receptor and one olfactory receptor present in human beings.
   2. Write a and b in the given flow chart of neuron through which information travels as an electrical impulse.
- **Q26.** An object is placed at a distance of 15 cm from a concave lens of focal length 30 cm. List four characteristics (nature, position, etc.) of the image formed by the lens.
- **Q27.** The question requires the application of knowledge about ray diagrams and reflection from concave mirrors to locate the image of an object.

Q28.

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2 Marks

2 Marks

Write the sequence of events that involve response of a person when a dust particle is inhaled through the nose by him.

Q29.	What happens when 5% alkaline potassium permanganate solution is added drop by drop to warm propyl alcohol (propanol) taken in a test tube? Explain with the help of a chemical equation.	2 Marks
Q30.	A glass prism is able to produce a spectrum when white light passes through it but a rectangular block of same transparent glass does not produce any spectrum. Why?	2 Marks
Q31.	<ul> <li>When the powder of a common metal is heated in an open china dish, its colour turns black. However, when hydrogen is passed over the hot black substance so formed, it regains its original colour. Based on the above information answer the following questions: <ol> <li>What type of chemical reaction takes place in each of the two given steps?</li> </ol> </li> <li>Name the metal initially taken in the powder form. Write balanced chemical equations for both reactions.</li> </ul>	2 Marks
Q32.	A student has set up an apparatus to show that "CO <sub>2</sub> is released during respiration". After about 1 hour he observes no change in the water level in the delivery tube. Write two possible reasons for the failure of the experiment.	2 Marks
Q33.	Redraw the following diagram on your answer-sheet and show the path of the reflected ray. Also mark the angle of incidence ( $\angle i$ ) and the angle of reflection ( $\angle r$ ) on the diagram.	2 Marks
Q34.	An object is placed at a distance of 12cm in front of a concave mirror of radius of curvature 30cm. List four characteristics of the image formed by the mirror.	2 Marks
Q35.	List four specific characteristics of the images of the objects formed by convex mirrors.	2 Marks
Q36.	<ol> <li>What is observed when a solution of potassium iodide is added to a solution of lead nitrate taken in a test tube?</li> <li>What type of reaction is this?</li> <li>Write a balanced chemical equation to represent the above reaction.</li> </ol>	2 Marks
Q37.	<ul> <li>Translate the following statements into chemical equations and then:</li> <li>1. Solution of barium chloride and aluminium sulphate in water react to give insoluble barium sulphate and the solution of aluminium chloride.</li> <li>2. Aluminium metal reacts with steam to give aluminium oxide and hydrogen gas.</li> </ul>	2 Marks
Q38.	Draw a ray diagram to show the path of the reflected ray corresponding to an incident ray of light parallel	2 Marks

to the principal axis of a convex mirror and show the angle of incidence and angle of reflection on it.

Q39. AB and CD, two spherical mirrors, form parts of a hollow spherical ball with its centre at O as shown in the diagram. If arc  $AB = \frac{1}{2}$  arc CD, what is the ratio of their focal lengths? State which of the two mirrors will always form virtual image of an object placed in front of it and why.



Q40.

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What is atmospheric refraction? List two phenomena which can be explained on the basis of atmospheric refraction.

Q41.	In the following food chain, if 50J of energy was available to the hawk, how much energy would have been present at the first and third tropic levels? Justify your answer. Grass $\rightarrow$ Grasshopper $\rightarrow$ Frog $\rightarrow$ Snake $\rightarrow$ Hawk	2 Marks
Q42.	State any four characteristics of the image of an object formed by a plane mirror.	2 Marks
Q43.	An object of height 2.5cm is placed at a distance of 15cm from the optical centre 'O' of a convex lens of focal length 10cm. Draw a ray diagram to find the position and size of the image formed. Mark optical centre 'O', principal focus F and height of the image on the diagram.	2 Marks
Q44.	List two possible ways in which a concave mirror can produce a magnified image of an object placed in front of it. State the difference, if any, between these two images.	2 Marks
Q45.	An object of height 2.5 cm is placed at a distance of 15 cm from the optical centre 'O' of a convex lens of focal length 10 cm. Draw a ray diagram to find the position and size of the image formed. Mark optical centre 'O', principal focus F and height of the image on the diagram.	2 Marks
Q46.	An object is placed at a distance of 40cm in front of a convex mirror of radius of curvature 40cm. List four characteristics of the image formed by the mirror.	2 Marks
Q47.	What is meant by the dispersion of white light? Draw a diagram to show dispersion of white light by the glass prism.	2 Marks
Q48.	Name the type of chemical reaction in which calcium oxide reacts with water. Justify your answer by giving balanced chemical equation for the chemical reaction.	2 Marks
Q49.	The absolute refractive index of Ruby is 1.7 Find the speed of light in Ruby. The speed of light in vacuum is 3 × 10 <sup>8</sup> m/s.	2 Marks
Q50.	Trace the path of a ray of light incident at an angle of 45 <sup>0</sup> on a rectangular glass slab. Write the measure of the angle of refraction, the angle of emergence and the lateral displacement suffered by the ray as it passes through the slab.	2 Marks
Q51.	What would you observe on adding zinc granules to freshly prepared ferrous sulphate solution? Give reason for your answer.	2 Marks
Q52.	How is O <sub>2</sub> and CO <sub>2</sub> transported in human beings?	2 Marks
Q53.	<ol> <li>Write the role of insulin in regulating blood sugar levels in human body. Mention the disease caused due to it.</li> <li>How is the timing and the amount of release of insulin in the blood regulated?</li> </ol>	2 Marks

- **Q54.** Give reason why herbivorous animals have longer, small intestine than carnivorous animals? Although 'Pepsin' and "Trypsin' are both protein digesting enzymes yet they differ from each other. Justify this statement by giving one difference between them.
- **Q55.** An object is placed at a distance of 15 cm. from a convex lens of focal length 20 cm. List four characteristics (nature, position, etc.) of the image formed by the lens.
- **Q56.** Name the part of the human excretory system where nephrons are found. Write the structure and function of nephrons.
- **Q57.** What are 'nastic' and 'curvature' movements? Give one example of each.

Q58.

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2 Marks

2 Marks

2 Marks

2 Marks

A gas is liberated immediately with a brisk effervescence, when you add acetic acid to sodium hydrogen carbonate powder in a test tube. Name the gas and describe the test that confirms the identity of the gas.

Q59.	A student adds a spoon full of powdered sodium hydrogen carbonate to a flask containing ethanol acid. List two main observations, he must note in his note book, about the reaction that takes place. Also write chemical equation for the reaction.	2 Marks
Q60.	In an experiment with a rectangular glass slab, a student observed that a ray of light incident at an angle of 55° with the normal on one face of the slab, after refraction strikes the opposite face of the slab before emerging out into air making an angle of 40° with the normal. Draw a labelled diagram to show the path of this ray.' What value would you assign to the angle of refraction and angle of emergence?	2 Marks
Q61.	Draw ray diagrams to represent the nature, position and relative size of the image formed by a convex lens for the object placed: 1. At 2 F <sub>1</sub> 2. Between F <sub>1</sub> and the optical centre O of lens.	2 Marks
Q62.	The image formed by a concave mirror is observed to be virtual, erect and larger than the object. Where should the position of the object be relative to the mirror? Draw ray diagram to justify your answer.	2 Marks
Q63.	Draw a ray diagram to show the path of the reflected ray corresponding to an incident ray which is directed parallel to the principal axis of a convex mirror. Mark on it the angle of incident and the angle of reflection.	2 Marks
Q64.	An object is placed at a distance of 30 cm from a concave lens of focal length 15 cm. List four characteristics (nature, position, etc.) of the image formed by the lens.	2 Marks
Q65.	A student added few pieces of aluminium metal to two test tubes A and B containing aqueous solutions of iron sulphate and copper sulphate. In the second part of her experiment, she added iron metal to another test tubes C and D containing aqueous solutions of aluminium sulphate and copper sulphate. In which test tube or test tubes will she observe colour change? On the basis of this experiment, state which one is the most reactive metal and why.	2 Marks
Q66.	Draw a ray diagram to show the path of the reflected ray corresponding to an incident ray which is directed towards the principal focus of a convex. mirror. Mark on it the angle of incidence and the angle of reflection.	2 Marks
Q67.	This question requires the student to demonstrate understanding by illustrating the dispersion of light through a prism, indicating comprehension of the principles of light refraction and dispersion.	2 Marks
Q68.	In the experimental set up to show that "CO <sub>2</sub> is given out during respiration", name the substance taken in the small test tube kept in the conical flask. State its function and the consequence of its use.	2 Marks
Q69.	A ray of light is incident on a convex mirror as shown. Redraw the diagram and complete the path of this ray after reflection from the mirror. Mark angle of incidence and angle of reflection on it.	2 Marks



#### **Q70.** Why is the colour of the clear sky blue?

- **Q71.** This question requires understanding the concept of refraction and how it affects the apparent position of **2 Marks** stars when observed from Earth.
- Q72. The refractive indices of glass and water with respect to air are 3/2 and 4/3 respectively. If speed of light in glass is 2×108 m/s, find the speed of light in water.
   2 Marks

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Q73.	Give the name of the enzyme present in the fluid in our mouth cavity. State the gland which produces it. What would happen to the digestion process if this gland stops secreting this enzyme?	2 Marks
Q74.	<ul> <li>Write one function each of the following components of the transport system in human beings:</li> <li>1. Blood vessels.</li> <li>2. Blood platelets.</li> <li>3. Lymph.</li> <li>4. Heart.</li> </ul>	2 Marks
Q75.	Draw a labelled ray diagram to show the path of the reflected ray corresponding to an incident ray of light parallel to the principal axis of a convex mirror. Mark the angle of incidence and angle of reflection on it.	2 Marks
Q76.	"A ray of light incident on a rectangular glass slab immersed in any medium emerges parallel to itself." Draw labeled ray diagram to justify this statement.	2 Marks
Q77.	State two positions in which a concave mirror produces a magnified image of a given object. List two differences between the two images.	2 Marks
Q78.	List two difference functions performed by pancreas in our body.	2 Marks
Q79.	List four characteristics of the images formed by plane mirrors.	2 Marks
Q80.	State whether the given chemical reaction is a redox reaction or not. Justify your answer. MnO <sub>2</sub> + 4HCl $\rightarrow$ MnCl <sub>2</sub> + 2H <sub>2</sub> O + Cl <sub>2</sub>	2 Marks
Q81.	List two properties of the images formed by convex mirrors. Draw ray diagram in support of your answer.	2 Marks
Q82.	State the two laws of reflection of light.	2 Marks
Q83.	A 4 cm 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 from 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?	2 Marks
Q84.	If the image formed by a spherical 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 labelled ray diagram to support your answer.	2 Marks
Q85.	The absolute refractive indices of glass and water are 4/3 and 3/2 respectively. If the speed of light in glass is 2 x10 <sup>8</sup> m/s, calculate the speed of light in (i) vacuum, (ii) water.	2 Marks
Q86.	Explain with the help of a diagram, why a pencil partly immersed in water appears to be bent at the water surface.	2 Marks

- **Q87.** Write two different ways in which glucose is oxidized to provide energy in human body. Write the products **2 Marks** formed in each case.
- **Q88.** In the process of digestion of food in human beings, two protein-digesting enzymes are secreted. Name **2 Marks** the enzymes along with the glands that secrete them.
- Q89. An object is placed at a distance of 30cm in front of a convex mirror of focal length 15cm. Write four2 Markscharacteristics of the image formed by the mirror.
- Q90. A student focuses the image of a well illuminated distant object on a screen using a convex lens. After that he gradually moves the object towards the lens and each time focuses its image on the screen by adjusting the lens.
  2 Marks

1. In which direction-towards the screen or away from the screen, does he move the lens? **CHECK GOOGLE FOR FREE TEST PAPERS www.ravitestpapers.com & www.ravitestpapers.in** 

- 2. What happens to the size of the image-does it decrease or increase?
- 3. What happens to the image on the screen when he moves the object very close to the lens?
- **Q91.** 1. Name the process shown below and define it:



2. Name the types of cells present in the organisms which exhibit this process.

Q92.	1. Why is it important to prevent oxygenated and deoxygenated blood from mixing in birds and	2 Marks
	2. Which animals can tolerate some mixing of the oxygenated and deoxygenated blood streams? On what factor does the body temperature of these animals depend?	
Q93.	A student focuses the image of a candle flame, placed at about 2 m from a convex lens of focal length 10 cm, on a screen. After that he moves gradually the flame towards the lens and each time focuses its image on the screen. 1. In which direction does he move the lens to focus the flame on the screen? 2. What happens to the size of the image of the flame formed on the screen? 3. What difference is seen in the intensity (brightness) of the image of the flame on the screen? 4. What is seen on the screen when the flame is very close (at about 5 cm) to the lens?	2 Marks
Q94.	List four precautions which a student should observe while determining the focal length of a given convex lens by obtaining image of a distant object on a screen.	2 Marks
Q95.	In the experiment "To prepare a temporary mount of a leaf peel to show stomata", glycerine and safranin are used. When and why are these two liquids used? Explain.	2 Marks
Q96.	<ul> <li>A student places a candle flame at a distance of about 60 cm from a convex lens of focal length 10 cm and focuses the image of the flame on a screen. After that he gradually moves the flame towards the lens and each time focuses the image on the screen.</li> <li>1. In which direction-toward or away from the lens, does he move the screen to focus the image?</li> <li>2. How does the size of the image change?</li> <li>3. How does the intensity of the image change as the flame moves towards the lens?</li> <li>4. Approximately for what distance between the flame and the lens, the image formed on the screen is inverted and of the same size?</li> </ul>	2 Marks
Q97.	List the steps of preparation of temporary mount of a leaf peel to observe stomata.	2 Marks
Q98.	Two green plants are kept separately in oxygen free containers, one in the dark and other in sunlight. It	2 Marks

was observed that plant kept in dark could not survive longer. Give reason for this observation.

- **Q99.** When we place a glass prism in the path of a narrow beam of white light a spectrum is obtained. What happens when a second identical prism is placed in an inverted position with respect to the first prism? Draw a labelled ray diagram to illustrate it.
- **Q100.** An object of height 4.0cm is placed at a distance of 30cm from the optical centre 'O' of a convex lens of focal length 20cm. Draw a ray diagram to find the position and size of the image formed. Mark optical centre 'O' and principal focus 'F' on the diagram. Also find the approximate ratio of size of the image to the size of the object.
- **Q101.** What is an oxidation reaction? Identify in the following reaction.
  - 1. The substance oxidised.

2. The substance red CHECK GOOGLE FOR FREE TEST PAPERS www.ravitestpapers.com & www.ravitestpapers.in 2 Marks

2 Marks

2 Marks

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Q102.	Name the type of mirrors used in the design of solar furnaces. Explain how high temperature is achieved by this device.	2 Marks
Q103.	"A concave mirror of focal length 15cm can form a magnified erect as well as inverted image of an object placed in front of it." Justify this statement stating the position of the object with respect to the pole of the mirror in both cases for obtaining the images.	2 Marks
Q104.	"The magnification produced by a spherical mirror is - 3". List four informations you obtain from this statement about the mirror/ image.	2 Marks
Q105.	To find-the image-distance for varying object-distances in case of a convex lens, a student obtains on a screen a sharp image of a bright object placed very far from the lens. After that he gradually moves the object towards the lens and each time focuses its image of the screen. 1. In which direction - towards or away from the lens, does he move the screen to focus the object? 2. What happens to the size of the image - does it increase or decrease? 3. What happen when he moves the object very close to the lens?	2 Marks
Q106.	A student has to trace the path of a ray of light through a glass prism. List four precautions he should observe for better results.	2 Marks
Q107.	What is insulin? Why are some patients of diabetes treated by giving injections of insulin?	2 Marks
Q108.	List four characteristics of the image formed by a concave mirror of focal length 40cm when the object is placed in front of it at a distance of 20cm from its pole.	2 Marks
Q109.	State laws of refraction of light.	2 Marks
Q110.	How is the movement of leaves of a sensitive plant different from the downward movement of the roots?	2 Marks
Q111.	There is a hormone which regulates carbohydrate, protein and fat metabolism in our body. Name the hormone and the gland which secretes it. Why is it important for us to have iodised salt in our diet?	2 Marks
Q112.	Study the following ray diagram and list two mistakes committed by the student while tracing it. Rectify these mistakes by drawing the correct ray diagram to show the real position and size of the image corresponding to the position of the object AB.	2 Marks

Q113. Explain in brief two ways by which leaves of a plant help in excretion.2 Marks

2 Marks

2 Marks

2 Marks

2 Marks

- Q114. List the events in proper sequence that take place during the process of photosynthesis.
- **Q115.** A student wants to study a decomposition reaction by taking ferrous sulphate crystals. Write two precautions he must observe while performing the experiment.
- **Q116.** What is observed after about 1 hour of adding the strips of copper and aluminium separately to ferrous sulphate solution filled in two beakers? Name the reaction if any change in colour is noticed. Also, write chemical equation for the reaction.
- **Q117.** A student mixes sodium sulphate powder in barium chloride powder. What change would the student observe on mixing the two powders? Justify your answer and explain how he can obtain the desired change.
- Q118. List four characteristics of the image formed by a convex lens of focal length 20cm when the object is placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of it at cister for the placed in front of the placed in front of the placed in front of the placed in for the placed in front of the

Q119.	Define refractive index of a transparent medium. The speed of light in a medium of absolute refractive index 1·5 is 2 × 10 <sup>8</sup> ms <sup>-1</sup> . What is the speed of light in vacuum?	2 Marks
Q120.	<ul> <li>Draw the path of a ray of light when it enters one of the faces of a glass slab at an angle of nearly 45°.</li> <li>Label on it: <ol> <li>Angle of refraction.</li> <li>Angle of emergence.</li> <li>lateral displacement.</li> </ol> </li> </ul>	2 Marks
Q121.	Write four sequential steps of the procedure of the experiment "Preparing a temporary mount of a leaf peel to show stomata."	2 Marks
Q122.	<ul> <li>In the experimental set-up to show that "the germinating seeds give out carbon dioxide", answer the following questions:</li> <li>1. Why do we keep the conical flask airtight?</li> <li>2. Name the substance kept in the small test tube inside the conical flask. Write its role.</li> <li>3. Why does water rise in the delivery tube?</li> </ul>	2 Marks
Q123.	List the changes that are observed when dil. HCl is added to a small amount of copper oxide in a beaker. Write balanced chemical equation for the reaction.	2 Marks
Q124.	What is observed when 2mL of dilute hydrochloric acid is added to 1g of sodium carbonate taken in a clean and dry test tube? Write chemical equation for the reaction involved.	2 Marks
Q125.	List four precautions in proper sequence which we observe while preparing a temporary mount of a leaf peel.	2 Marks
Q126.	<ul> <li>A light ray enters from medium A to medium B as show in figure.</li> <li>Medium 'B'</li> <li>Medium 'A'</li> <li>1. Which one of the two media is denser w.r.t. other medium? Justify your answer.</li> <li>2. If the speed of light in medium A is v<sub>a</sub> and in medium B is v<sub>b</sub>, what is the refractive index of B with respect to A.</li> </ul>	2 Marks
Q127.	<ol> <li>A ray of light starting from diamond is incident on the interface separating diamond and water. Draw a labelled ray diagram to show the refraction of light in this case.</li> <li>Absolute refractive indices of diamond and water are 2.42 and 1.33 respectively. Find the value of refractive index of water w.r.t. diamond.</li> </ol>	2 Marks
<b>Q128</b> .	Write balanced chemical equation for the reaction that occurs when:	2 Marks

1. Blue coloured copper sulphate crystals are heated.

2. Sodium hydrogen carbonate is heated during cooking.

**Q129.** The colour of clear sky from the earth appears blue but from the space it appears black. Why?

**Q130.** In which region of the brain is (i) medulla and (ii) cerebrum located ? State one function of each.

**Q131.** Name a hormone that promotes the growth of tendrils and explain how they help a pea plant to climb up **2 Marks** other plants.

2 Marks

2 Marks

2 Marks

Q132. When and where does a rainbow appear in the sky? Draw a labelled ray diagram to show its formation. 2 Marks

**Q133.** What is scattering of light? Why does the clear sky appear blue?

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Q134.	A student traces the path of a ray of light through a glass prism as shown in the diagram, but leaves it incomplete and unlabelled. Redraw and complete the diagram. Also label on it $\angle i$ , $\angle e$ , $\angle r$ and $\angle D$ .	2 Marks
Q135.	In the following food chain, only 2J of energy was available to the peacocks. How much energy would have been present in Grass? Justify your answer. GRASS $\rightarrow$ GRASS HOPPER $\rightarrow$ FROG $\rightarrow$ SNAKE $\rightarrow$ PEACOCK	2 Marks
Q136.	How do auxins promote the growth of a tendril around a support?	2 Marks
Q137.	In the experiment of preparing a temporary mount of a leaf peel to observe stomata, we use two liquids other than water. Name these two liquids and state when and why these liquids are used.	2 Marks
Q138.	When copper powder is heated in a watch glass, a black substance is formed. 1. Why is this black substance formed? Name it. 2. How can this black substance be reversed to its original form?	2 Marks
Q139.	What is observed when aqueous solutions of potassium iodide and lead nitrate are mixed together? Name the type of reaction and write the chemical equation for the reaction that occurs.	2 Marks
Q140.	List in proper sequence four steps of obtaining germinating dicot seeds.	2 Marks
Q141.	A student has to trace the path of a ray of light passing through a rectangular glass slab for four different values of angle of incidence. 1. Write two important precautions for this experiment. 2. List two conclusions the student will draw based on his experiment.	2 Marks
Q142.	With the help of a schematic flow chart, show the breakdown of glucose in a cell to provide energy 1. In the presence of oxygen 2. Inlack of oxygen	2 Marks
Q143.	What is puberty? Mention any two changes that are common to both boys and girls in early teenage years.	2 Marks
Q144.	Draw a labelled diagram in proper sequence to show budding in hydra.	2 Marks
Q145.	A student is observing the temporary mount of a leaf peel under a microscope. Draw labelled diagram of the structure of stomata as seen under the microscope.	2 Marks
Q146.	Define absolute refractive index and express it mathematically.	2 Marks
Q147.	List in proper sequence the steps of the experiment for determining the approximate focal length of a	2 Marks

given concave mirror by obtaining the image of a distant object.

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7 HOW DO ORGANISMS	4. HIS - THE AGE OF	9. GEO - AGRICULTURE
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	17. PS - OUTCOMES OF	22. ECO - CONSUMER	SOME ENGLISH TAMIL
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