O.P. JINDAL SCHOOL, SAVITRI NAGAR
PERIODIC TEST –I (Round-1) (2026-27)

CLASS-X **MAX.MARKS-20**
SUBJECT-SCIENCE **MAX.TIME-1 Hour**

General Instruction:-

(i)All questions are compulsory .There are 12 questions in this question paper with some internal choice in section B and C.

(ii) **SECTION –A:** Question numbers 1 to 6 is MCQs, carrying 1 mark each.

(iii) **SECTION –B:** Question numbers 7 to 10 are short answer questions carrying 2 marks each.

(iv) **SECTION –C:** Question numbers 11 and 12 are long questions carrying 3 marks each.

SECTION A

Q1. The mode of nutrition found in fungi is: (1M)

(a) Parasitic nutrition (b) Holozoic nutrition
(c) Autotrophic nutrition (d) Saprotrophic nutrition

Q2. The process of respiration is: (1M)

(a) an oxidation reaction which is endothermic
(b) a reduction reaction which is exothermic
(c) a combination reaction which is endothermic
(d) an oxidation reaction which is exothermic

Q3. A concave mirror forms a real image of an object placed in front of it at a distance 30 cm, of size three times the size of object. The focal length of concave mirror is (1M)

(a) 25 cm (b)26.5 cm
(c) 22.5 cm (d)32.5 cm

Q4. Carbohydrates in plants are stored in the form of: (1M)

(a) Glycogen (b) Starch
(c) Glucose (d) Maltose

Q5. Which of the following can be decomposed by the action of sunlight? (1M)

(a) NaCl (b) KCl
(c) AgCl (d) CuCl

Q6. A mirror forms an image with a magnification of -0.5. What is the nature and size of the image? (1M)

(a)Real , inverted, diminished (b)Real, inverted, magnified
(c)Virtual, erect, diminished (d)Virtual , erect ,magnified

SECTION B

Q7. Differentiate between autotrophic nutrition and heterotrophic nutrition .Give one example of each. (2M)

OR

Why is nutrition necessary for the human body?

Q8. Why does the colour of copper sulphate solution change when an iron nail is kept immersed in it? (2M)

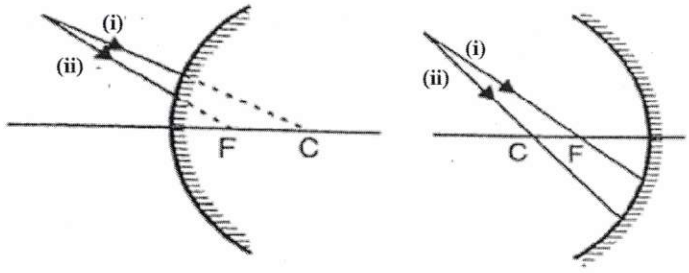
Q9. Write the balanced chemical equation for the following reaction: (2M)

$$Fe + H_2O \longrightarrow Fe_2O_3 + H_2$$

Q10. Attempt either (A) or (B): (2M)

(A):

Complete the following ray diagram in figure given below by drawing the reflected rays for incident rays (i) and (ii) in each figure.



OR

(B):

The linear magnification of a convex mirror of focal length 15cm is 1/3. What is the distance of the object from the focus of the mirror?

SECTION C

Q11. Describe the process of nutrition in Amoeba with the help of diagram. (3M)

OR

Diffusion is insufficient to meet the oxygen requirement of multicellular organisms like human. State reason.

Q12. Attempt either (A) or (B): (3M)

(A):

(i) When a concave mirror is used as a shaving mirror, where is the person's face in relation to the focus of mirror? Write the characteristic of image formed in this condition.

(ii) An object 5 cm high is placed at a distance 60 cm in front of a concave mirror of focal length 10 cm. Find the position of the image.

OR

(B):

(i) Why does a driver use a convex mirror instead of a plane mirror as a rear view mirror? Illustrate your answer with the help of a ray diagram.

(ii) A point light source is kept in front of a convex mirror at a distance of 40 cm. The focal length of the mirror is 40 cm. Find the position of image.

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