Strive for Perfection

ANGEL'S PUBLIC SCHOOL

SAMPLE PAPER

PERIODIC TEST – I SESSION 2025 – 26

CLASS – X

TIME : 1 hr. : 30 min. **SUBJECT – SCIENCE** **M.M = 40**

General Instructions:

(a) All questions are compulsory.

(b) Section – A contains ten multiple choice questions of 1 mark each.

(c) Section – B contain three questions of 2 marks each.

(d) Section – C contain three questions of 3 marks each.

(e) Section – D contain three questions of 5 marks each.

SECTION – A

I. Choose the correct options:

(a) Rusting of Iron is due to:

(i) reduction reaction (ii) oxidation reaction (iii) displacement reaction (iv) addition reaction

(b) Proteins after digestion are converted into:

(i) carbohydrates (ii) small globules (iii) amino acids (iv) starch

(c) Fe + Cuso4 —— Feso4 + Cu is:

(i) reduction reaction (ii) oxidation reaction (iii) displacement reaction (iv) Combination reaction

(d) Photosynthesis is an example of:

(i) addition reaction (ii) redox reaction (iii) exothermic reaction (iv) endothermic reaction

(e) The mode of nutrition found in fungi is:

(i) parasitic nutrition (ii) holozoic nutrition (iii) autotrophic nutrition (iv) saprotrophic nutrition

(f) Bile juice is secreted by:

(i) stomach (ii) pancreas (iii) small intestine (iv) liver

(g) The respiratory pigment in human beings is:

(i) carotene (ii) chlorophyll (iii) haemoglobin (iv) mitochondria

(h) A ray of light parallel to principal axis after reflection from a concave mirror passes through:

(i) pole (ii) focus (iii) centre of curvature (iv) none of these

(i) A parallel beam of light after reflection from a mirror converges to a point. The mirror is:

(i) convex (ii) concave (iii) plane (iv) none

(j) For a convex mirror, the magnification is always:

(i) m = 1 (ii) m > 1 (iii) m < 1 (iv) m = -1

SECTION – B

11. Explain a 'displacement reaction' with a suitable example.

12. Draw ray diagram showing the image formation by a mirror when an object is placed:

(a) at infinity. (b) between pole and focus.

13. Differentiate between arteries and veins.

SECTION – C

14. Balance the followings chemical equations.

(a) $N_2 + H_2 \rightarrow NH_3$

(b) $Bacl_2 + Na2so_4 \rightarrow Baso_4 + Nacl$

15. Write three points of difference between respiration in plants and respiration in animals.

16. An object 1 cm high is placed on an axis and 15 cm from a concave mirror of focal length 10cm. Find the position, nature, magnification and size of the Image.

SECTION – D

17. Explain in detail with protective measures:

(a) Corrosion. (b) Rancidity of food.

18. Explain with the help of neat and well labelled diagrams, the different steps involved in nutrition in amoeba.

19. (a) Write two uses each of a concave mirror and a convex mirror.

(b) An object is placed 15cm from a convex mirror of radius curvature 90cm. Calculate the image position and magnification.