

O.P.JINDAL SCHOOL, SAVITRINAGAR
Annual Examination–(2025-26)

Class/Sec-VII/ _____ MM– 80

Subject–Science

Time-3hours

Name _____

Roll No. _____

Fifteen minutes extra will be given for reading the Question Paper. General Instructions – All the questions are compulsory.

1. The Question paper comprises of 6 sections A,B,C,D,E,F. There are 24 questions in all.
2. Section A, Q1 comprises of 12 MCQ type questions and carries 1 mark each.
3. Section B, Q2 to Q3 comprises of 4, 4 Case-Based type questions.
4. Section C, Q4 comprises of 2 Assertion-Reason type questions.
5. Section D, Q5 to Q12 are very short answer type questions, carries 2 marks each.
6. Section E, Q13 to Q21 are short answer type questions, carries 3 marks each.
7. Section F, Q22 to Q24 are long answer type questions, carries 5 marks each.

SECTION-A

Q1. Choose the correct option.

i. The range of the laboratory thermometer in degree celcius is

- (a) 35 to 42 (b) 0 to 100 (c) -10 to 110 (d) 32 to 212

ii. Heat from the sun reaches to us through

- (a) Radiation (b) Conduction (c) Convection (d) All

iii. Which of the following is a physical change?

- (a) Burnining (b) Digestion (c) Curdling (d) Melting of ice

iv. Vinegar contains _____ acid.

- (a) Acetic (b) Formic (c) Lactic (d) Carbonic

v. Which tissue transports water and minerals from the root to other parts of the plant?

- (a) Phloem (b) Xylem (c) Cortex (d) Cambium

vi. The human heart has _____ chambers.

- (a) 5 (b) 6 (c) 2 (d) 4

vii. Which part of the plant produces pollen grain?

- (a)Stigma (b)Ovary (c)Anther (d)Style

viii. Vegetative reproduction occurs in

- (a)Wheat (b)Rice (c)Potato (d)Mustard

ix. Which of the following is a decomposer found in forest?

- (a) Mushroom (b) Deer (c)Tiger (d)Grass

x. Forests help in maintaining

- (a)Water cycle (b)Soil fertility (c)Balance of gasses (d)All of these

xi. Which of the following is used to remove large objects like plastics and rags from waste water?

- (a)Sedimentation (b)Screening (c) Aeration (d) Chlorination

xii. Which of the following is used to kill germs in clarified water?

- (a)Hydrogen (b)Ozone (c)Helium (d)Nitrogen

SECTION-B

Q.2 Read the passage and answer the given questions:

To understand the process of physical change, take some sugar crystals and dissolve in water. The water becomes sweet to taste. Sugar molecules are present in water. Evaporate the sugar solution in a china dish using a bunsen burner or spirit lamp. A white residue is obtained in the china dish. All the properties of the residue are identical to the sugar which was earlier dissolved in water.

(i) Which of the following changes is a chemical change?

- (a) Cutting wood (b) Burning wood (c) Chopping wood (d) All of these

(ii) Vaporisation is an example of _____ change.

- (a) Chemical (b) Molecular (c) Physical (d) Both (a) and (c)

(iii) Burning of candle is an example of _____ change.

- (a) Physical (b) Chemical (c) Both (a) and (b) (d) None

(iv) Evaporation of sugar solution is an example of

- (a) Physical change (b) Chemical change
(c) Both physical and Chemical change (d) None of these

Q.3 Read the following passage and answer the following questions.

Circulatory system is one of the most important system of the body because it ensures the exchange of substances between cells of the body and external environment and transport them from one part to another. Body fluids are the medium of transport in the body. These fluids have the ability to pick up substances and distribute them to various parts of the body. Blood has two components- fluid part and different types of cells.

(i) The fluid part of the blood is called

- (a)RBC (b)WBC (c)Platelets (d)Plasma

(ii) Which blood cell contains haemoglobin?

- (a)RBC (b)WBC (c)Platelets (d)Both (a) and (b)

(iii) Haemoglobin binds with

- (a) Hydrogen (b)Oxygen (c)Nitrogen (d) Sodium

(iv) Which of the following fight against diseases?

- (a)WBC (b)RBC (c)Platelets (d)Either (a) or (b)

SECTION-C

Q4. A statement of Assertion is given by the corresponding statement of Reason.

Choose the correct answer.

(i) **Assertion:** We can see an object only when light from the object enters our eyes.

Reason: Light travels in straight line.

- (a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true and R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.

(ii) **Assertion:** A plane mirror always forms a virtual and erect image.

Reason: The reflected rays actually meet behind the mirror.

- (a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true and R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.

SECTION-D

Q5. What is galvanization? Why is it done?

Q6. Write two differences between conduction and convection.

OR

Explain the precautions to be taken while using a laboratory thermometer.

Q7. Write any two advantages of vegetative reproduction.

Q8. What is activated sludge? What is its use?

Q9. Mention any two ways by which waste water can be reduced.

Q10. Write any two differences between concave and convex mirror.

Q11. Why are forests called our lifeline?

Q.12 Write differences between clinical and laboratory thermometer.

OR

Show the structure of a clinical thermometer with a well labelled diagram.

SECTION-E

Q.13 Describe transpiration and write any two importance of it.

OR

What are blood vessels? Name their types and functions.

Q.14 The terms sewage, sewers and sewerage are interlinked with each other. Can you explain, how?

Q.15 Draw a well labeled diagram of human excretory system.

Q.16 Mention any three observations other than new substances formed in a chemical change.

Q.17 Give reasons for each of the following.

(i) We should not throw used tea leaves into sink.

(ii) We should not throw cooking oil and fats down the drain.

Q.18 Describe an activity to show the process of conduction of heat.

Q.19 Which mirror is used as rear view mirror and why?

Q.20 Write the differences between self pollination and cross pollination.

OR

Why is seed dispersal important? What are the agents of seed dispersal.

Q.21 Explain the role of forest in controlling flood. Describe the three layers of forests.

SECTION-F

Q.22. Explain different methods of asexual reproduction in plants.

OR

Describe the structure of a flower with the help of a diagram. (Any three)

Q.23. Describe the characteristics of image formed by a plane mirror with a diagram.

OR

Draw the ray diagram to show the nature of the image formed by a concave mirror when the object is placed beyond centre of curvature.

Q24. Write any five factors which are responsible for the destruction of forests.

OR

Why should we worry about the conditions and issues of forests far from us? Write any five reasons.
