

SAMPLE PAPER

O. P. JINDAL SCHOOL, SAVITRI NAGAR

Annual Examination – (2022-2023)

Class/Sec- VII/ _____

Subject – Science

Name _____

MM – 80

Time- 3 hrs

Roll No. _____

Fifteen minutes extra will be given for reading the Question Paper.

General Instructions –

1. The Question Paper comprises of 6 sections A,B,C,D,E,F. There are 32 questions in the Question Paper. All the questions are compulsory.
 2. Section A, Q1 to Q8 comprises of 8 MCQ type questions and carries 1 mark each.
 3. Section B, Q9 & Q10 are of case-base type questions.
 4. Section C, Q11 co is Assertion-Reason type question.
 5. Section D, Q12 to Q20 are very short answer type questions, carries 2 marks each.
 6. Section E, Q21 to Q29 are short answer type questions, carries 3 marks each.
 7. Section F, Q30 to Q32 are long answer type questions, carries 5 marks each.
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SECTION - A

Choose the correct option.

Q1. The Storm occurs with lightning and thundering is called

- (a) Tornado (b) Fast wave (c) Thunderstorm (d) Light-storm

Q2. If the reflecting surface of a spherical mirror curves inward it is called

- (a) Plane (b) Concave (c) Convex (d) Lens

Q3. In anaerobic respiration glucose is broken down to form

- (a) Alcohol (b) Oxygen (c) Carbon dioxide (d) Fructose

Q4. Heat is transferred from one end of a metal to the other end through

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

Q5. It bears a wide variety of plants and animals.

- (a) Desert (b) Rainforest (c) Polar region (d) Mountain

Q6. It is found near the equator.

- (a) Rainforest (b) Ocean (c) Desert (d) Air

Q7. Clinical thermometers normally have the temperature range

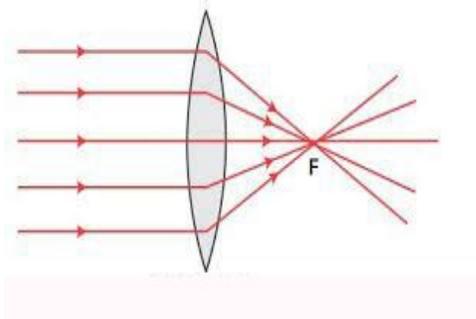
- (a) 35°C to 42°C (b) -10°C to 110°C (c) 28°C to 40°C (d) -42°C to 48°C

Q8. See the symbol and identify the electric component. 

- (a) Electric bulb (b) Switch (c) Wire (d) Electric cell

SECTION -B

Q9. Look at the diagram and answer any four questions.



(i) Identify the lens.

- (a) Convex (b) Concave (c) Plane (d) Coloured

(ii) The light after passing through this lens gets

- (a) Diverge (b) Converge (c) Parallel (d) No change

(iii) A beam of light coming from outside meet at the _____ on the other side.

- (a) Focus (b) Centre (c) Flash (d) Fraction

(iv) Image formed by the above lens here (object at infinity), is

- (a) Inverted (b) Real (c) Small size (d) All of these

(v) This lens is used in

- (a) Flashlight (b) Torches (c) Lasers (d) Microscopes

Q10. Read the following paragraph and answer any four questions.

Most rainforests are structured in layers i.e. **emergent, canopy, understory, and forest floor**. Each layer has unique characteristics based on how much water, sunlight and air circulation it experiences. The forest floor is often blanketed with decaying leaves, twigs, fallen trees, animal scat, moss, and other detritus. The forest floor is where recycling occurs, fungi, insects, bacteria. The understory of a forest consists of immature trees and small trees that are shorter than the main canopy level of the tree. Understory trees provide shelter for a wide range of animals. The canopy is the layer where the crowns of most of the forest's trees meet and form a thick layer. Emergents are trees whose crowns emerge above the rest of the canopy.

(i) Which layer comprises of decomposers?

- (a) Emergent (b) Canopy (c) Understorey (d) Forest floor

(ii) In which layer, animals get most of the benefits?

- (a) Emergent (b) Canopy (c) Understorey (d) Forest floor

(iii) Emergent layer has plants

- (a) Taller (b) Shorter (c) Medium (d) None of these

(iv) What causes a variety of plants in forests?

- (a) Weather (b) Climate (c) Soil (d) Rainfall

(v) Which of these layers gets most of the sunlight?

- (a) Emergent (b) Canopy (c) Understorey (d) Forest floor

SECTION -C

Q11. A statement of Assertion is given by the corresponding statement of Reason. Choose the correct answer.

(i) Assertion – Sea breeze occurs due to conduction current of heat.

Reason – Sea breeze blows at the day time due to excessive heat causes on land.

(a) Assertion and reason both are correct and reason is correct explanation for assertion.

(b) Assertion and reason both are correct and reason is not correct explanation for assertion.

(c) Assertion is correct but reason is wrong statement.

(d) Assertion is wrong but reason is correct statement.

(ii) Assertion – Wearing light shaded clothes in summer protects us from heat of the sun.

Reason – Black colour absorbs more heat than that of others.

(a) Assertion and reason both are correct and reason is correct explanation for assertion.

(b) Assertion and reason both are correct and reason is not correct explanation for assertion.

(c) Assertion is correct but reason is wrong statement.

(d) Assertion is wrong but reason is correct statement.

(iii) Assertion – The heat of the sun reaches the earth without material medium.

Reason – Radiation of heat travels without any material medium.

(a) Assertion and reason both are correct and reason is correct explanation for assertion.

(b) Assertion and reason both are correct and reason is not correct explanation for assertion.

(c) Assertion is correct but reason is wrong statement

(d) Assertion is wrong but reason is correct statement.

(iv) Assertion – The air above the sea is warmer than that of land at day time.

Reason – Light air always rises up.

(a) Assertion and reason both are correct and reason is correct explanation for assertion.

(b) Assertion and reason both are correct and reason is not correct explanation for assertion.

(c) Assertion is correct but reason is wrong statement

(d) Assertion is wrong but reason is correct statement.

SECTION -D

Q12. What is the transfer of heat about? Explain your answer.



- Q13.** Name any four elements that determine the weather of a place.
- Q14.** Write two Adaptations of penguin to survive in polar regions.
- Q15.** Write two impacts of cyclone in our lives.
- Q16.** How is air pressure responsible to create thunderstorms?
- Q17.** How is alcohol formed in anaerobic respiration?
- Q18.** Describe how different organisms breathe through different body parts.
- Q19.** What is called vascular tissue? What is it responsible for?
- Q20.** How does current flow in a circuit? Draw a circuit diagram to show it.

SECTION -E

- Q21.** Explain with two examples, why we find certain kind of animals in a particular region.
- Q22.** Write an activity to show that high speed winds are accompanied by reduced air pressure?
- Q23.** Why do we often sneeze when we inhale a lot of dust-laden air?

OR

How does a cockroach and an earthworm breathe? .

- Q24.** Draw and label excretory system in human beings.
- Q25.** What is circulatory system made of? Describe any two of it.
- Q26.** Why is seed dispersal needed? Explain how the factors are responsible for it.

OR

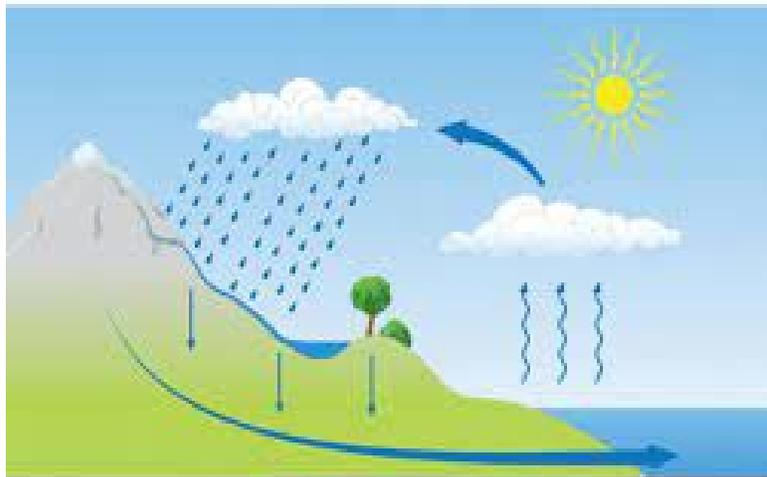
What are the differences between unisexual and bisexual flowers.

- Q27.** Differentiate between concave mirror and convex mirror with its usage.
- Q28.** Explain why there is a wide variety of plants and animals in a forest?

OR

Draw and label any three layers in a forest.

Q29. Label the following diagram and explain it briefly.



SECTION -F

Q30. How does fertilization occur in a flower?

OR

What is reproduction? Describe in details asexual reproduction in plants with examples.

Q31. What do you mean by heating effect of electric current? Explain it with its diagram.

OR

Draw and explain a switch. Also write two uses of it.

Q32. Draw and label water table. Explain it with examples.

OR

What is water management? Explain any three ways by which we can manage water..