O. P. JINDAL SCHOOL, SAVITRI NAGAR Annual Examination – (2023-24)

Class/Sec- VII/ Subject — Science Name			MM – 80 Time- 3 hrs Roll No			
Fifteen minutes extra General Instructions -	will be given for readin	g the Question Paper.				
 The Question Paper comprises of 6 sections A,B,C,D.E,F. There are 24 questions in the Question Paper. All the questions are compulsory. Section A, Q1 comprises of 12 MCQ type questions and carries 1 mark each. Section B, Q2 is of case-base type questions. Section C, Q3 is Assertion-Reason type question. Section D, Q4 to Q12 are very short answer type questions, carries 2 marks each. Section E, Q13 to Q21 are short answer type questions, carries 3 marks each. Section F, Q22 to Q24 are long answer type questions, carries 5 marks each. 						
Q1. Choose the correct		CTION - A				
(i) This process of tran	sfer of heat in a liquid o	r gas is called				
(a) Radiation	(b) Conduction	(c) Convection	(d) Compression			
(ii) Clinical thermomet	ters normally have the te	emperature 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			
(iii) Which of these is a	a physical change?					
(a) Photosynthesis	(b) Respiration	(c) Melting of wax	(d) Digestion of food			
(iv) The process of dep	positing a layer of zinc o	on iron is called				
(a) Crystallisation	(b) Galvanisation	(c) Rusting	(d) Solution			
(v) The two lower chambers of heart are called						
(a) Atria	(b) Aorta	(c) Ventricles	(d) Atrium			
(vi) Which process hel	ps the stem of plants co	nduct upward movemen	nt of water?			
(a) Transpiration	(b) Gravitation	(c) Respiration	(d) Frction Page			

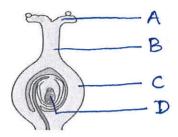
(vii) The pollen grains a	re found inside the					
(a) Pistil	(b) Ovary	(c) Stigma	(d) Anther			
(viii) Fertilised egg is ca	ılled					
(a) Zygote	(b) Embryo	(c) Ovary	(d) Baby plant			
(ix) If the reflecting surface of a spherical mirror curves outward it is called a						
(a) Plane mirror	(b) Concave mirror	(c) Convex mirror	(d) Lens			
(x) In a plane mirror the image is always the object.						
(a) Larger than	(b) Same as	(c) Smaller than	(d) Inverted			
(xi) In a forest, the tall trees look like a roof over the other plants is called a						
(a) Canopy	(b) Understorey	(c) Crown	(d) Forest floor			
(xii) Find odd one out.						
(a) Prevent flood	(b) Prevent soil erosic	on (c) Balance gas	(d) Food chain			
	SEC	TION D				
	SEC	CTION -B				
Q2. Read the paragraph and answer the following questions.						
When we keep a cup of temperature. This happe which is at a lower temperature. As a result,	ns because the heat ene erature. The heat energ	rgy flows from the hot y flows till the coffee r	coffee to its surrounding eaches the normal			
Hold the handle of a pan heat transfers from the fi			you can not hold it because			
(i) Which of these is the	transfer of heat from he	otter object to the coole	er object?			
(a) Conduction	(b) Convection	(c) Radiation	(d) All of them			
(ii) When an object absorbs heat the temperature of that object						
(a) Increases	(b) Decreases	(c) Remains s	same (d) No change			

(iii) Heat always flows fro	m temperature					
(a) Higher to lower	(b) Lower to higher	(c) Colder to hotter	(d) Remains same			
(iv) Heat that flows from one object to another is a/an form of						
(a) Material	(b) Energy	(c) Medium	(d) Temperature			
(v) Which of these is a goo	od conductor of heat?					
(a) Wood	(b) Steel	(c) Plastic	(d) Both b & c			
(vi) Transfer of heat from the flame to the handle is the process called						
(a) Conduction	(b) Convection	(c) Radiation	(d) Both a & b			
		ON C				
O3. A statement of Asser	SECTI tion is given by the corr		eason. Choose the			
Q3. A statement of Assertion is given by the corresponding statement of Reason. Choose the correct answer.						
(a) Assertion and reason	n both are correct and rea	ason 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.						
(d) Assertion is wrong but reason is correct.						
(i) Assertion – In an open drain the fats clog the soil pores reducing its effectiveness.						
Reason – They can harden and block the path.						
(ii) Assertion – The sludge is transferred to a separate tank where it is decomposed by the anaerobic						
bacteria.						
Reason – The treated water is used for drinking.						
SECTION -D						
Q4. Define galvanisation. Why are the iron pipes we use in our homes to carry water galvanised?						
Q5. Write one difference between physical and chemical change with one example each.						
Q6. Carbon dioxide + Lir	me water →	+				

Q7. What are blood vessels? Write two functions of them.

OR

- Q7. What helps to excrete the waste-water from the body? Name the main waste product here.
- **Q8.** Why is blood needed by all parts of the body?
- Q9. Differentiate between self pollination and cross pollination..
- Q10. Label the four parts of the diagram.



- Q11. Give one use each of a concave and convex mirror.
- Q12. The distance between you and your image in a plane mirror is 6m. If you move 2m towards the mirror, find the distance between you and your image.

SECTION-E

- Q13. What three things do you observe in a chemical reaction?
- Q14. Draw and label the human excretory system.
- Q15. What is vascular tissue? Describe its two main functions.

OR

Q15. Describe three components of blood.

Q16. Match the following.

(a) Unisexual flower

Pollination

(b) Fertilisation

Pumpkin, Gourd

(c) Innermost part of flower

Fusion of male and female gamete

(d) Transfer of pollens

Reproductive part of plant

(e) Stem cutting

Pistil

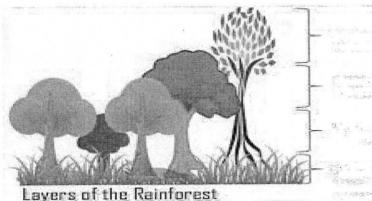
(f) Flower

Rose, sugarcane

Q17. What is a real and virtual image? Which mirror does produce a virtual image always?

OR

- O17. What is a convex lens? Draw any one diagram to show the image formed by it.
- Q18. (i) Draw a food chain.
 - (ii) Name the four layers of forest.



- Layers of the Rainforest
- O19. List out your role as a good citizen in managing waste water. (three ways)
- **Q20.** How is sludge treated? Explain in details.

OR

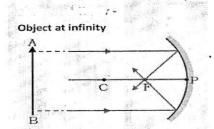
- Q20. Define
 - (i) Aeration
- (ii) Sanitation
- (iii) Bio-gas
- Q21. Describe the steps involved in getting clarified water from waste-water?

SECTION-F

Q22. What is asexual reproduction? Explain any three ways by which asexual reproduction occurs.

OR

- Q22. (i) Define unisexual flower and bisexual flower with one example each.
 - (ii) Explain any three ways of dispersal of seeds.
- Q23. Look at the diagram and answer the following.



- (i) Name the mirror.
- (ii) Write the kind of image formed by the mirror when object is at infinity.
- (iii) Where is the image formed here?
- (iv) What is 'F'?
- (v) How is its reflecting surface? (Curved inward/outward)
- Q24. "Forest is a dynamic entity, full of life and vitality". Explain briefly with five major points.

OR

- Q24. X, Y and Z are three types of organisms which are found in a forest. X eats both plants and animals, Y eats up dead animals while Z breaks down the body of the dead animals into simpler substances
 - (a) What is the name of organism Z? Write one example of Z.
 - (b) What kind of animal is X? Give one example of it.
 - (c) What is the name of organism Y? Write one example of Y.
 - (d) How is Z beneficial for the environment?
 - (e) In which layer of forests does X live?
