DAV BR PUBLIC SCHOOL, BINA

HALF YEARLY EXAMINATION 2024-25

PRACTICE PAPER

Class: VII Subject: Science

Time allowed: 2:30 Hours MM: 50

General instructions:

- 1 The question paper consists of 2 sections- section A (having 13 questions) and section B (having 7 question). You have to attempt both the sections.
- 2 All questions of section A and section B are to be attempted separately.
- 3 All questions are compulsory.
- 4 In section A, question 1 to 3 are choice basedquestions and each carry 4 marks.
- 5 In section A, question 4 to 10 are very short answer type questions and each carry 1 mark.
- 6 In section A, question 11 to 13 are short answer type questions and carry 2 marks each.
- 7 In section B, question 14 to 18 are short answer type questions (II) and carry 3 marks each.
- 8 In section B, question 19 to 20 are long answer type questions and carry 5 marks each.

SECTION A

I. Answer for the following competency based questions: (4X3=12)

1. Fatima keeps four boxes containing equal sized butter cubes under the sun. The boxes are of the same size but different materials.

BOX 1	12 minutes
BOX 2	16 minutes
BOX 3	7 minutes
BOX 4	9 minutes

a) Which of the boxes is the best conductor of heat?

i. BOX 1

iii. BOX 3

ii. BOX4

iv. BOX 2

b) Which of the boxes is the bad conductor of heat?

i. BOX 1

iii. BOX 3

ii. BOX4

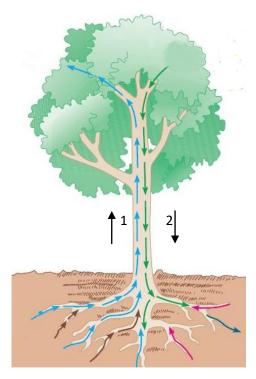
iv. BOX 2

- c) By which process does the heat from the sun reaches to the boxes?
 - i. Conduction

iii. Convection

ii. Radiation

- iv. Chemical change
- d) What will happen if the boxes are externally covered by a newspaper?
 - i. Butter cubes will not melt.
 - ii. Butter cubes will melt quicker.
 - iii. There will be no change in the data mentioned above.
 - iv. Butter cubes will take more time to melt.
- 2. The picture shows the directions of movement of two different substances in plants.



- a) What do the two types of arrows in the picture show the movement of?
 - i) 1- air, 2- water

iii) 1- food, 2- air

ii) 1-water, 2- food

iv) 1- food, 2- water

- b) What tissues help in the transportation of water and minerals?
 - i) Xylem

iii) Haemoglobin

ii) Phloem

iv) lenticels

- c) What tissues help in the transportation of food?
- i) Xylem

iii) Haemoglobin

ii) Phloem

iv) lenticels

- d) Xylem and phloem are contained in
 - i) Only Stomata

iii) Just roots

ii) Only Lenticels

iv) Vascular bundle

h c	carrying water with impurities. Chinmay on sight of this approached him to not do this ever again and advised him to minimize contamination of water. a) Water which contains impurities and dirt is called? i) Fresh water iii) usable water							
	,	Waste water	iv) clean water					
h	,		•					
D	b) Waste water from offices, factories and hospitals is known as? i) Dirty water iii) fresh water							
	,	Sewage	iv) rain water harvest					
0,	,	· ·	,					
C,	c) The network of pipes that takes sewage away from its source is termed as?							
	•	Sewerage system	iii) Fresh water supply					
	ii)	Rain water harvest	iv) Waste water collection					
d) Sew	erage system takes sewage						
	i)		iii) Water treatment plant					
	ii)	Hospitals	iv) Water supply plant					
II Ve	erv sh	ort answer type questions	s: (1X7=7)					
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SECTION B

IV. Short answer type questions: (3X5=15)

- 14. Give reasons for the following:
- (a) Sea breeze flows from sea to land during day.
- (b) People usually prefer to wear light colored clothes during summers.
- (c) A clinical thermometer has a constriction in its capillary tube.
- 15. Explain the types of reactions. Provide each type with a balanced equation example.
- 16. Discuss, in brief, how 'rain water harvesting' can be done.
- 17. Define the following terms and mention one example for each:
- a) Symbiotic relationship
- b) Saprotrophic mode of nutrition
- c) Parasitic mode of nutrition
- 18. Explain the process of obtaining nutrition by amoeba along with a well labeled diagram.

V Long answer type questions: (2X5=10)

- 19. (a) Draw a distance-time graph for:
- i) A girl on a bicycle, waiting for the signal to turn green.
- ii) A boy racing with his friend at a constant speed.
- iii) A police car chasing a thief with the following data:

Distance (m)	0	5	7	12	18
Time (s)	0	4	6	8	10

- (b) How is uniform motion different from non-uniform motion? Give one example of each.
- 20. a) Draw a well labelled diagram of human respiratory system.
 - b) Describe the changes that take place during expiration-
 - (i) Around the rib cage
 - (ii) Chest cavity
 - (iii) Diaphragm

