

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 based questions 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)

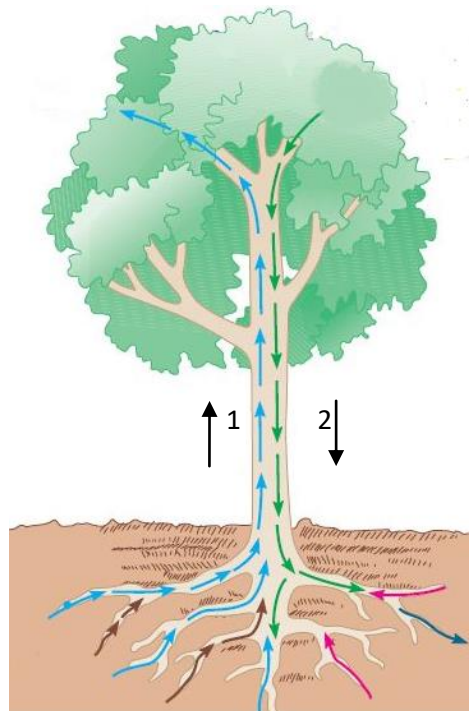
1. Fatima keeps four boxes containing equal sized butter cubes under the sun. The boxes are of the same size but different materials.

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
 - ii. BOX 4
 - iii. BOX 3
 - iv. BOX 2
- b) Which of the boxes is the bad conductor of heat?
 - i. BOX 1
 - ii. BOX 4
 - iii. BOX 3
 - iv. BOX 2

- c) By which process does the heat from the sun reaches to the boxes?
- Conduction
 - Radiation
 - Convection
 - Chemical change
- d) What will happen if the boxes are externally covered by a newspaper?
- Butter cubes will not melt.
 - Butter cubes will melt quicker.
 - There will be no change in the data mentioned above.
 - 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?
- 1- air, 2- water
 - 1-water, 2- food
 - 1- food, 2- air
 - 1- food, 2- water
- b) What tissues help in the transportation of water and minerals?
- Xylem
 - Phloem
 - Haemoglobin
 - lenticels
- c) What tissues help in the transportation of food?
- Xylem
 - Phloem
 - Haemoglobin
 - lenticels
- d) Xylem and phloem are contained in
- Only Stomata
 - Only Lenticels
 - Just roots
 - Vascular bundle

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

