# NAAHAR PUBLIC SCHOOL (CBSE) SENIOR SECONDARY PERIODIC TEST-IV

**GRADE: VII DATE: 23.12.2022 SUBJECT NAME: SCIENCE** MARKS: 80 SUBJECT TEACHER: MS.MADHUMITHA.S TIME: 2.30hrs

## **General Instructions:**

- 1. The question paper consists of 50 questions and is divided into three sections, A, B and C.
- 2. All questions are compulsory.
- 3. Section A comprises question numbers 1 to 33.
- 4. Section B comprises question numbers 34 to 49. These are SAQs carrying two marks and three marks each.
- 5. Section C comprises question numbers 50. These are SAQs carrying five marks each.

## SECTION -A

### Fill in the blanks with suitable words. I.

1. The roots of a plant take up oxygen from the ----- trapped between the ----- particles.

(7x1=7)

- 2. The rotting dead matter is -----.
- 3. Exchange of gases in the leaves take place with the help of -----.
- 4. The process of removal of wastes is----.
- 5. Soil is composed of -----.
- 6. Gills are well supplied with -----.
- 7. A large muscular sheet is -----

#### II. **Choose the correct answer:**

(8x1=8)

- 8. The muscular tube through which stored urine is passed out the body is--
  - a. Kidney
- c. ureter
- b. Urethra
- d. urinary bladder
- 9. Wind, rainfall,' temperature, light and humidity affect the
- c. water
- d. mountain
- They are pipe-like, consisting of a group of specialised cells. They transport substances and form a two-way traffic in plants. Which of the following terms qualify for the features mentioned above?
  - a. Xylem tissue
- c. vascular tissue
- b. Root hairs
- d. phloem tissue
- Blood is red due to the presence of ----
  - a. Blood is fluid
- c. haemoglobin
- b. It carries oxygen
- d. it carries carbon dioxide
- Form of energy used in respiration is --
  - a. Mechanical energy c. Radiant energy
  - b. Electrical energy
- d.Chemical energy
- 13. The formula that is used to calculate the percentage of water absorbed, in this "U" stands for ----
  - a. Weight of the soil
- c. Type of the soil
- b. Initial volume of water d. Final volume of water
- 14. In desert plants, photosynthesis is a function of----
  - a. stem
- c. leaves
- b. roots
- d. fruits
- Stomata open and close due to ----a. Presence of valves
  - c. Turgor pressure of guard cells
  - b. Hormonal control
- d. Concentration gradient of gases

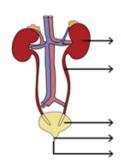
# III. Match the following:

 $(8 \times \frac{1}{2} = 4)$ 

- 17. Right ventricle chest cavity
- 18. Germs Greater proportion
- 19. Sandy soil –pushes blood into the pulmonary artery
- 20. Lungs white blood cells
- 21. Phloem four chambers
- 22. Arteries transported food23. Earthworms Oxygen rich blood
- 24. Heart skin

# IV. Identify the following:

25. Label the Parts:



(5x1=5)

 $(6x \frac{1}{2} = 3)$ 

V. Mark the following statements true or False. Correct the false statements

- 26. Oxygen breaks down glucose outside the cells of organisms.
- 27. Frogs can breathe through their skin as well as lungs.
- 28. Insects have spiracles on the lower surface of the body.
- 29. Exhaled air has more percentage of CO<sub>2</sub> than inhaled air.
- 30. Sandy soil is used to make pots.

(3X1=3)

# VI.Pick the odd-one-out from each of the groups given below on the basis of respiratory organs. Give reason for your answer.

- 31. lizard, cow, earthworm, snake
- 32. crocodile, whale, dolphin, fish
- 33. snake, tadpole, crow, goat

## **SECTION-B**

# VII. Answer in short: (9X2=18)

- 34. Give the name of respiratory organs in the following animals.
  - (a) Fish
  - (b) Human being
- 35. Explain cellular respiration?
- 36. What is weathering?
- 37. Soil has particles of different sizes. Arrange the words given below in decreasing order of their particle size. Rock, clay, sand, gravel, silt.
- 38. Name the organ which is located in the chest cavity with its lower tip slightly tilted towards the left?
- 39. Name the respiratory organs in frogs?
- 40. Exchange of gases, food and other substances occurs between arteries and veins. How does this exchange happen?
- 41. State the functions of valves.
- 42. What is the role of excretion?

# VIII. Answer in brief:

(4x3=12)

- 43. What are chemical fertilisers? Write their harmful effects.
- 44. Why do we respire?
- 45. What are stomata? Give two functions of stomata.
- 46. What will happen if there are no platelets in blood?

# IX. Answer in detail:

(5x3=15)

- 47. Classify the soil on the basis of the size of the particles of the soil.
- 48. Explain form and functions of the urinary system in man?
- 49. a) Describe the function of heart?
  - b) What do you mean by dialysis? Explain.

# **SECTION-C**

(5X1=5)

- 50. a) Draw the section of the human heart and label the parts.
  - b). Differentiate between arteries and veins.