

GRADE: VII
SUBJECT NAME: SCIENCE
SUBJECT TEACHER: MS.MADHUMITHA.S

DATE: 23.12.2022
MARKS: 80
TIME: 2.30hrs

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.

I. Fill in the blanks with suitable words. (7x1=7)

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

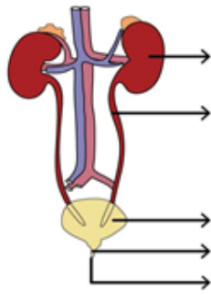
8. The muscular tube through which stored urine is passed out the body is---
 - a. Kidney
 - b. Urethra
 - c. ureter
 - d. urinary bladder
9. Wind, rainfall, temperature, light and humidity affect the –
 - a. soil
 - b. air
 - c. water
 - d. mountain
10. They are pipe-like, consisting of a group of specialised 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
 - b. Root hairs
 - c. vascular tissue
 - d. phloem tissue
11. Blood is red due to the presence of -----
 - a. Blood is fluid
 - b. It carries oxygen
 - c. haemoglobin
 - d. it carries carbon dioxide
12. Form of energy used in respiration is ---
 - a. Mechanical energy
 - b. Electrical energy
 - c. Radiant 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
 - b. Initial volume of water
 - c. Type of the soil
 - d. Final volume of water
14. In desert plants, photosynthesis is a function of-----
 - a. stem
 - b. roots
 - c. leaves
 - d. fruits
15. Stomata open and close due to -----
 - a. Presence of valves
 - b. Hormonal control
 - c. Turgor pressure of guard cells
 - d. Concentration gradient of gases

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 food
23. Earthworms – Oxygen rich blood
24. Heart - skin

IV. Identify the following:

(6x ½ =3)

25. Label the Parts:



(5x1=5)

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 CO₂ 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.