

Class: VII

Subject: SCIENCE

Time : 90 min

Max. Marks: 40

General Instructions:

1. This question paper consists of four sections A,B,C,D.
 2. Section A has 20 MCQs questions & each question carries 1 mark.
 3. Section B has 3 questions and each question carries 2 marks.
 4. Section C has 3 questions and each question carries 3 marks.
 5. Section D has 1 questions and each question carries 5 marks.
 6. Draw a neat labelled diagram wherever necessary.
 7. All the question are compulsory.
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SECTION – A

MCQs:

(1x20=20).

1. Which part of the plant is known as it's food factory?
a. fruit b. seeds c. leaves d. flowers
2. Which of the following is an example of symbiotic Organism
a. lichens b. Rhizobium c. Cuscuta d. both A and B
3. Insectivorous plants eat insects to fulfill their needs of
a. carbon b. nitrogen c. potassium d. energy
4. A parasitic plant with yellow, slender stem is
a. China rose b. Cuscuta c. pitcher plant d. rosés.
5. What is the ultimate source of energy for all living organisms?
a. solar energy b. wind energy c. chemical energy d. heat energy
6. Complete digestion of food takes place in
a. stomach b. small intestine c. large intestine. d. liver
7. Which is not digested by humans?
a. protein b. fats c. glucose d. cellulose
8. Where ere is the bile produced?
a. Blood b. Spleen c. Liver d. Gall Bladder

9. Water from digested food is absorbed mainly in
 a. stomach b. food pipe c. small intestines d. large intestine
10. Heat from the sun richest to us by
 a. conduction b. radiation c. convection d. all of the above
11. What is the normal temperature of the healthy person
 a. 37° Celsius b. 37° Fahrenheit c. 37° Kelvin d. 27° Fahrenheit
12. How many premolars teeth found in mouth
 a. 2 b. 4 c. 6 d. 8
13. Which of the following thermometer has kink
 a. laboratory thermometer b. clinical thermometer c. both A and B d. digital printer

14. Assertion- dark coloured objects absorb more heat than the light-coloured objects.

Reason - we feel more comfortable in light coloured clothes in the summer.

- a. Both A and R are true and R is the correct explanation of A.
 b. Both A and R are true but R is not the correct explanation of A.
 c. A is true but R is false.
 d. A is false but R is true.

15. Assertion(A)-Some Organism live together and share both shelter and nutrients.

Reason (R) - the organisms live together called lichens.

- a. Both A and R are true and R is the correct explanation of A.
 b. Both A and R are true but R is not the correct explanation of A.
 c. A is true but R is false.
 d. A is false but R is true.

Read the following paragraph and answer the question number 16 to 20.

We can grow plants and keep them healthy if we can fulfil the nutrient requirement of plants. Usually crop plants absorb a lot of nitrogen and the soil becomes deficient in nitrogen. Though nitrogen gas is available in plenty in the air, plants cannot use it in the manner they can use carbon dioxide. They need nitrogen in a soluble form. Hence addition of fertilizers and manure ends up reaching the soil. The bacterium called rhizobium can take atmospheric nitrogen and convert it into a usable form. But rhizobium cannot make its own food. So, it often lives in the roots of gram, peas, moong, beans and other legumes and provides them with nitrogen. In return the plants provide food and shelter to the bacteria. This does have a symbiotic relationship. This association is of great significance for the farmers. They can reduce the use of nitrogenous fertilizer where leguminous plants are grown. Most of the pulses are obtained from leguminous plants.

16. Which Organism converts gaseous nitrogen into usable form.
 a) cattle b) microbes c) rhizobium bacteria d) earthworms

17. What kind of relationship is found in rhizobium and roots of leguminous plants
a) parasitic b) heterotrophic c) symbiotic d) none of the above
18. Farmers can reduce the use of nitrogenous fertiliser by growing _____ crop in their fields
a) mustard b) gram c) wheat d) paddy
19. We can full fill nutrient requirements of plants by using
a) fertilizers and manure b) weedicides c) water d) pesticides
20. Rhizobium bacteria are found in ____ of leguminous plants
a) stem b) root c) leaf d) fruit

SECTION – B

II. Answer the following questions in one or two sentences (2x3=6).

21. Distinguish between parasite and Saprotrophs.
22. Give two examples each of conductor and insulator.
23. What are villi? What is their location and functions?

SECTION – C

III. Answer the following questions in at least five sentences (3x3=9).

24. Differentiate between the laboratory thermometer and clinical thermometer.
25. How many types of teeth are present in human? What do you mean by tooth decay?
26. What are stomata? State their functions.

SECTION – D

IV. Answer the following questions (1+2+2=5).

27. Which metal is used in the bulb of thermometer?
28. Name three methods of transfer of heat. Name the method in which no medium is required.
29. Shopkeeper selling ice block usually cover them jute sacks. Explain why?