



JSS

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**Mid - Term Question Paper Solving (2020-21)**

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**STD: VII**

**SUB : Science**

**Max Marks=80**

**Section - A**

**(1X20=20M)**

1. Answer questions from 1 (a) to 1 (d) on the basis of understanding of the following paragraph and the related studied concepts.

What happens to certain plants that grow in the soil, which do not have sufficient nutrients in the soil especially nitrogen?

These plants prey upon insects to get the required nutrition. They are capable of trapping the insects through their uniquely designed leaves. The groups of plants which get nourishment from the insect's body are known as insectivorous/ carnivorous plants. Example of such plants are pitcher plant, sundew.

A leaf of the pitcher plant is modified to form a pitcher like structure with a lid. Glands within the pitcher secrete nectar which attracts insects. There is also lining of hair pointing downwards within the pitcher. As soon as the insect is trapped in the pitcher, the lid closes and the hair does not allow the insect to escape. The body of the insect is slowly digested by the acidic digestive fluid and water, resulting in the formation of a liquid food which is rich in nitrogen.

1(a) Give one example for insectivorous plant.

1(b) Why do they track the insect?

1(c) How do they digest insects?

1(d) List the function of lid.

2. Assertion and Reason Type Questions

For the following questions, two statements are given - one labelled as **Assertion (A)** and the other labelled **Reason (R)**. Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below:

(i) Both A and R are true and R is the correct explanation of the assertion.

(ii) Both A and R are true but R is not the explanation of the assertion.

(iii) A is true but R is false.

(iv) A is false but R is true.

a. Assertion : Acids are sour to taste and bases are bitter to taste.

Reason : Bases are slippery to touch.

b. Assertion: Destarching is necessary during photosynthetic experiment.

Reason : Destarching removes pre existing starch.

3. The finger like outgrowth present in the inner wall of small intestine are \_\_\_\_\_

a. cilia

b. villi

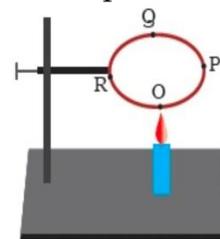
c. flagella

d. mucus

4. The process of removing the hair of sheep is called \_\_\_\_\_  
 a. fleecing      b. shearing      c. scouring      d. sorting
5. Ultimate source of energy is \_\_\_\_\_  
 a. plants      b. water      c. sun      d. all of these
6. Write the test for hydrogen gas.
7. Name the carbohydrate present in the plant fibre.
8. What is spun silk?
9. You are given number of indicators. Write their effects on acids and bases.

Sl.no	Name of the indicator	Acids	Bases
1	Turmeric powder		
2	Litmus paper		
3	Methyl orange		
4	Phenolphthalein		

10. A circular metal loop is heated at point O as shown in figure.
- In which direction would heat flow in the loop?
  - In which order pins at points P,Q and R fixed with the help of wax fall if points O, P, Q and R are equidistance from each other.
  - What is the mode of transfer of heat in metal?
  - Differentiate between conductor of heat and heat insulator?



### Section - B

(3X10=30M)

11. What is food chain? Give one example.
12. Write a short note on decomposers.
13. Give one example for the following.
- Change of colour.
  - Evolution of gas.
  - Change in odour.
14. What kind of change is shown by tearing of paper? List important characteristics of that change.
15. Complete the following.
- $2K + 2HCl \rightarrow \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$
  - $NaHCO_3 + HCl \rightarrow \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + H_2O$
  - $CaO + \underline{\hspace{2cm}} \rightarrow Ca(OH)_2 + \underline{\hspace{2cm}}$

16. Fill in the blanks.

Substances	Name of the Acid/Base present in it
Lime water	
Amla	
Vinegar	
Grape	
Milk of magnesia	
Window cleaner	

17. With the help of neat labeled diagram, explain sea breeze and land breeze.

18. a. List the two precautions to be taken while using the laboratory thermometer.

b. Convert the following into Kelvin scale.

i.  $23^{\circ}\text{C}$       ii.  $-44^{\circ}\text{C}$

19. Write a note on sources of wool.

20. Draw neat labeled diagram of human digestive system.

Section - C

(5X6=30M)

21. a. What is nutrition?

b. What are the different modes of nutrition in plants?

c. Write an equation to represent the process of photosynthesis.

22. Describe the process of holozoic nutrition in amoeba.

23. With the help of neat labeled diagram explain the life cycle of silk moth.

24. How to use a clinical thermometer?

25. List six uses of caustic soda and four uses of nitric acid.

26. Define the following :

a. Rusting

b. Galvanization

c. crystallization

d. Endothermic reaction

e. Physical change

**OR**

Give reason for the following:

a. There is no waste in a forest.

b. Forest prevents floods.

c. Forests are called green lungs.

d. Cutting of a forest affects the water cycle in nature.

e. We must conserve forests.