

GENERAL INSTRUCTIONS:

- * I. Answer all the questions. Each carries 1 marks.
- * II. Answer all the questions. Each carries 2 marks.
- * III. Each Answer carries 3 marks each. All the questions are compulsory. (Internal choice is given for Q. No. 19, 20 & 21).
Draw the diagram wherever necessary.
- * IV. Detail – Carries 5 marks each. (Internal choice is given).
Diagram is compulsory for the related questions chosen.
- * V. MCQ's Answer all the questions. Each carries 1 mark.
- * VI. VBQ's Q. No. 35 & Q. No. 36 is compulsory each carries 2 marks

I. Answer in one word:

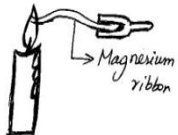
5x1=5

1. Which is the largest gland in the human body?
2. Name the solution used to test the presence of starch.
3. What is the rotting dead matter in the soil called?
4. From which plant, litmus is extracted?
5. Which device is used to measure the atmospheric pressure?

II. Answer in short:

6x2=12

6. Classify the following as physical change or chemical change.
a) Digestion of food b) Beating of aluminium into thin foil.
7. Where is the bile produced? Which component of the food does it help to digest?
8. Observe the picture and answer the following:



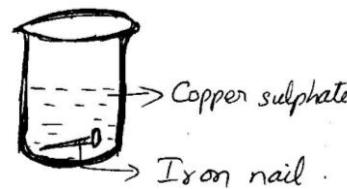
- a) When magnesium is burnt in Oxygen, what product is obtained?
- b) Write the chemical formula for the product obtained.

9. Why do mountaineers carry oxygen with them?
10. Why is the uppermost layer of soil, dark in colour?
11. Define: Breathing rate.

III. Answer in paragraph:

10x3=30

12. State the difference between Acids and Bases.
13. Explain conductor and insulator with an example.
14. Explain the process of breathing in human.
15. Write short notes on soil types.
16. Describe how soil pollution could be prevented.
17. State the main hazards of wool industry.
18. Can we survive only on raw, leafy vegetables or grass. Give reason.
19. a) Observe the following and answer:



- i) What is the colour of the copper sulphate solution?
- ii) What happens to the solution when iron nail is dropped in? State the reason.
- iii) Which substance deposited over the iron nail?

(OR)

- b) Write one similarity and one difference between the nutrition in amoeba and human beings.

20. Which type of animals are inhabitants of tropical rain forest area?

(OR)

What are the secretions inside the stomach? Explain.

21. Write some common adaptive features of a polar bear which help in keeping it warm.
(OR)
Explain why rusting of iron objects is faster in coastal areas than in deserts.

IV. Answer in detail:

4x5=20

22. Describe the sequence of steps in the processing of wool. (OR)
Explain the nutrition in amoeba with diagram.
23. When baking soda is mixed with lemon juice, gas is evolved.
What type of change is it? Explain with diagram. (OR)
Draw the different stages in the life cycle of silk moth and explain.

24. List the precautions to be measured while reading a clinical thermometer. (OR)
Differentiate clayey soil and sandy soil.
25. Write the difference between aerobic and anaerobic respiration. (OR)
- a) How is China rose indicator prepared?
b) An antacid tablet is taken when you suffer from acidity. Explain.
- V. MCQ: 9x1=9
26. Amylase enzyme is present in _____.
a) Stomach b) Saliva c) Small intestine d) Heart
27. The saliva breaks down the _____ into sugars.
a) Starch b) Villi c) Proteins d) Fats
28. The rearing of silkworms for obtaining silk is called _____.
a) Horticulture b) Apiculture c) Seri Culture d) Mori culture
29. The process of depositing a layer of _____ on iron is known as galvanisation.
a) Aluminium b) Zinc c) Copper d) Bronze
30. Weather reports are prepared by _____.
a) Meteorologist b) Scientist c) Astrologer d) Astronaut
31. _____ acid is found in curd.
a) Citric b) Lactic c) Acetic d) Hydrochloric
32. Smoking damages _____.
a) Small intestine b) Villi c) Lungs d) Brain
33. Sea breeze blows during _____.
a) Day b) Night c) Rainy season d) Winter season
34. The best top soil for growing plants is _____ soil.
a) Sandy b) Loamy c) Clayey d) Black

VI. HOTS:

2x2=4

35. Austine is playing with his friend, Frank in the garden. Suddenly a bee bites Frank. Austine immediately brings baking soda and rubs it on the stung area.
a) Why did Austine apply baking soda?
b) What value do you learn from Austine?
36. Raheem goes to Ranvir's house to celebrate Diwali. Both are bursting crackers and enjoying.
a) Which type of change is bursting of crackers?
b) Do you think bursting of crackers is good for our environment.