

Bhavan's Tripura Vidyamandir
1st Terminal Examination : (2025-2026)

Class:- 8

Time:-3 Hours

Roll:

Name of the student:

Subject :- Science

Total :- 80 Marks

Sec:

General instructions:

- A. Question no 1 to 20 carrying 1 mark each
- B. Question no 21 to 29 carrying 2 marks each
- C. Question no 30 to 38 carrying 3 marks each
- D. Question no 39 to 41 carrying 5 marks each.

Choose the correct answer from the following:

(1X4)

- 1. Find out the antibiotic among them -
a. Yeast b. Streptomycin c. Alcohol d. Hydrochloric acid
- 2. Which tools from the list below are used for wedding?
a. Trowel b. Harrow c. Both a & b d. none of these
- 3. Which one of the following is not a fossil fuel?
a. CNG b. Petrol c. Biogas d. Coal
- 4. Water applied to a road will-
a. Reduce friction b. Increase friction c. Not affect friction d. None of these

Fill up the blanks:

(1X4)

- 5. Friction opposes the _____ between the surfaces in contact with each other.
- 6. Incomplete combustion of a fuel gives poisonous _____ gas.
- 7. The chemical preservative named _____ used in jams to prevent spoilage.
- 8. The microorganism is responsible for the disease yellow vein mosaic of bhindi is _____

Answer the following question in very short:

(1X4)

- 9. Mention the name of the substance that is used in the head of the safety match.
- 10. Mention one use of hydrogen gas.
- 11. What is up thrust?
- 12. Name one microorganism which require oxygen for respiration.

State true or false for the following statement:

(1X4)

- 13. Algae can carry out the process of photosynthesis.
- 14. Pascal is the SI unit of pressure.
- 15. Friction does not generate heat in mechanical systems.
- 16. Nothing can burn in the absence of oxygen.

Study the following case and answer the questions:

Anita visited her grandmother's village during summer vacation. She noticed curd being set at home using a small amount of curd from the previous day. Her grandmother told her that this happens due to bacteria called Lactobacillus. Anita also saw farmers using bio fertilizers in their fields, which contain blue-green algae to increase soil fertility. Later, she visited a health camp where polio vaccination was given to children to protect them from disease-causing viruses. Her science teacher had earlier explained that some microorganisms cause diseases, while others are used in making antibiotics, alcohol, and in cleaning the environment. Anita also learned that some microorganisms spoil food when kept for long in warm, moist conditions.

Answer the questions:**(1X4)**

17. Name the bacterium responsible for setting curd.
18. Which type of microorganism is used as a bio fertilizer in the fields?
19. Polio is caused by which type of microorganism?
20. Give one condition that helps microorganisms spoil food.

Answer the following questions:**(2X9)**

21. Write two usefulness of microorganisms in our lives.
22. Which zone of a flame does a goldsmith use for melting gold and silver and why?
23. Define the following:
 - i. rolling friction
 - ii. static friction.**(1+1)**
24. Write two uses of coal gas.
25. Rakesh is a Farmer in a flood prone area. Which type of irrigation method should he use and why?
26. In an experiment, 2.5 kg of fuel was completely burnt. The heat produced was measured to be 120,000 kJ. Calculate the calorific value of the fuel.
27. What is a pathogen? Give examples.
28. Define pressure. Which instrument is used to measure atmospheric pressure. **(1+1)**
29. Give two advantages of judicious uses of energy.

Answer the following questions:**(3X9)**

30. What is irrigation? Describe two method of irrigation which conserve water?
31. Give reasons:
Why LPG is a better domestic fuel than wood?
32. Draw 3 microorganisms along with the names.
33. Friction is both a friend and a foe. Explain why?
34. Burning fossil fuels releases pollutants into the atmosphere. Suggest two alternative energy sources that can reduce our reliance on fossil fuels. Name two places where natural gas found. **(2+1)**
35. Write 3 characteristics of good fuel.
36. What do you mean by communicable disease or infectious disease give example. Mention 3 ways, how the communicable disease spread **(1.5+1.5)**
37. Write 3 effects of force.
38. Describe characteristics and uses of coke.

Answer the following questions in Broad:**(5X3)**

39. Make a labelled diagram of candle flame. What is inflammable substance? Give one example. **(3+2)**
40. Define pasteurisation.name the scientist who discovered pasteurization. Draw a neat labeled diagram of nitrogen cycle. **(2+3)**
41. Explain why sliding friction is less than static friction. Name the forces acting on a plastic bucket containing water held above ground level in your hand. Discuss why the forces acting on the bucket do not bring a change in its state of motion. **(3+2)**