

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

Class : 7
Time : 3 Hours

Subject : Science
Total : 80 Marks

Name of the student :

Roll : Sec :

All the questions are compulsory

- Section A Consists Question 1 to 5 shall carry 1 mark each
Section B Consists Question 6 to 14 shall carry 2 marks each
Section C Consists Question 15 to 23 shall carry 3 marks each
Section D Consists Question 24 to 26 shall carry 5 marks each

SECTION -A

1. Select the correct one

(1X4=4)

- i. Insects have a network of air tubes called
(a) Spiracle (b) Trachae (c) Lung (d) Bladder
- ii. The scientific name of baking soda is
(a) Sodium hydrogen carbonate (b) acetic acid
(c) Magnesium oxide (d) Blue vitriol
- iii. Killing of bacteria takes place in
(a) Stomach (b) large intestine (c) Buccal cavity (d) Oesophagus
- iv. Which part of plant take in carbon dioxide from air for photosynthesis
(a) Root hair (b) Stomata (c) Leaf veins (d) Petal

2. Say True or False

(1X4=4)

- i. Plant which synthesise their food from dead and decaying matter is called Autotrophic nutrition
- ii. The tongue helps in mixing food with saliva
- iii. Tooth decay is caused by the presence of base
- iv. Frog breath through their moist skin as well as through their lung

3. Answer in short

(1X4=4)

- i. What is the percentage of oxygen present in inhaled air?
- ii. Write the full form of ORS
- iii. What is the length of large intestine in our body?
- iv. What is called a parasitic plant with yellow, slender and branched stem.

4. Fill up the blanks

(1X4=4)

- i. Motion of a child on a seesaw is called as
- ii. An acid turn blue litmus paper to.....
- iii. In chemical change a is formed
- iv. Increased physical activities enhances the rate of

5. Study the following paragraph and answer

(1+1+1+1=4)

We are more comfortable to wear white or light coloured cloths in summer and dark coloured cloths in winter. Dark surfaces absorb more heat and therefore we feel warm with dark coloured cloths in winter. Light coloured cloths reflects most of the heat falls on them and therefore we feel more comfortable wearing them in summer.

- (i) Which coloured cloth is comfortable to wear in summer and why? (1+1)
- (ii) Which coloured cloth shall keep our body warm in winter and why? (1+1)

SECTION-B

Answer the following

(2X9=18)

6. What is rust? Write its formula.
7. State two differences between physical change and chemical change
8. Show the percentage of oxygen (O₂) and carbon dioxide (CO₂) in inhaled and exhaled air of human being. Show a schematic diagram
9. When baking soda is mixed with lemon juice, bubbles are formed with evolution of gas. What type of change it is? Explain
10. What is neutralisation reaction? Give example
11. Why bases are slippery to touch?
12. Draw and label different taste region of tongue.
13. Show with the help of sketch that plants are the ultimate source of food.
14. A person has a problem with liver, how could this affect in digestion?

SECTION-C

(3X9=27)

Answer the following as instructed

15. Why do fungi grow on bread kept at moist place?
16. Draw and label a clinical and laboratory thermometer.
17. Why it is advised to chew food properly before swallowing.
18. Cooking utensils are made of metal but handles are made of plastic or wood, explain why?
19. Show the distance-time graph for the motion of the following cases
(a) A car moving with constant speed (b) a car parked on road side (1.5+1.5)
20. List three differences between aerobic and anaerobic respiration.
21. Why it is suggested not to sleep under a big tree at night.
22. List three characteristic of a chemical change.
23. Explain why burning of wood and cutting it into smaller pieces are considered as two different types of changes.

SECTION-D

(5X3=15)

Answer in details

24. (a) What is alkali?
(b) Name the base found in milk of magnesia
(c) Why factory waste is neutralised before depositing it in water basin?
(1+1+3=5)
25. (a) Draw a human respiratory system with labelling
(b) Why cuscutea is considered as a parasite?
(3+2)
26. (a) A simple pendulum takes 32 seconds to complete 20 oscillations, what is the time period of the pendulum.
(b) Mention three differences between uniform and non-uniform motion with example.