

**Bhavan's Tripura Vidyamandir**1<sup>st</sup> Terminal Examination: (2024-2025)**Class:- 7**

Time:- 3 Hours

**Subject:- Science**

Total :- 80 Marks

Name of the student :

Roll:

Section:

**All the questions are compulsory**

- a) Question 1 to 4 will carry one mark each
- b) Question 5 to 13 will carry 2 marks each
- c) Question 14 to 22 will carry 3 marks each
- d) Question 23 to 25 will carry 5 marks each

**Q1. Select the correct one:****1X5=5**

- (a) The plant which trap and feed on insect is
  - (i) Cuscuta
  - (ii) China rose
  - (iii) Pitcher plant
  - (iv) Pumpkin
- (b). Complete digestion of food is done in
  - (i) Small intestine
  - (ii) Stomach
  - (iii) Liver
  - (iv) Large intestine
- (c) Normal range of breathing rate per minute in an average adult person at rest is
  - (i) 9- 12
  - (ii) 15-18
  - (iii) 21-24
  - (iv) 30-33
- (d) During exhalation, the ribs
  - (i) Move outwards
  - (ii) Moves downwards
  - (iii) Moves upward
  - (iv) Do not move at all.
- (e) The basic unit of speed is
  - (i) km/ mint
  - (ii) m/ mint
  - (iii) Km /hour
  - (iv) m/s

**Q2. Say True /False****1X5=5**

- (a) The fishes have lung for respiration
- (b) The gall bladder temporarily store bile
- (c) Cutting of log of wood into pieces is a chemical change
- (d) Iron pipe coated with Zinc do not get rusted easily
- (e) Plant synthesise their food themselves are called saprotroph

**Q3. Answer the followings in short****1X5=5**

- (a) During heavy exercise we get cramps in the legs due to accumulation of-----
- (b) Name the motion of a child on a see-saw
- (c) Muscular floor of chest cavity is known as -----
- (d) Why ozone layer is important for atmosphere
- (e) Name the thermometer by which the weather report is measured

**Q4. Fill the blanks with suitable words****1X5=5**

- (a) The stomach releases hydrochloric acid and-----juices which act on food
- (b) The hotness of an object is determined by its-----
- (c) The changes in which only-----properties of a substance changes are called physical change
- (d) Temperature of boiling water cannot be measured by a-----thermometer
- (e) Amoeba digests its food in-----

**Answer the following questions in brief****2X9=18**

- Q5. Show with a sketch that plants are the ultimate source of food
- Q6. Why do we get instant energy from Glucose?
- Q7. Your mother has decided to buy stainless steel utensils instead of iron---Why?
- Q8. Show a schematic diagram showing the percentage of  $\text{CO}_2$  and  $\text{O}_2$  in inhaled and exhaled air
- Q9. A simple pendulum takes 32 seconds to complete 20 oscillation. Find out the time period of the pendulum
- Q10. Write two uses of bases
- Q11. What are villi? Where are they found?
- Q12. Explain why rusting of iron materials are faster in coastal areas
- Q13. Compare between speedometer and odometer

**Answer the following as instructed****3X9=27**

- Q14. Show three differences between parasite and saprotroph
- Q15. Write the ways of taking food for Earthworm, Spider, and Humming bird
- Q16. Draw human respiratory system with proper labelling
- Q17. Mention three precautions to be taken for use of clinical thermometer
- Q18. How acid is different from bases? Write three points to illustrate
- Q19. When a candle burns, physical and chemical changes take place, identify the changes, and Give another example of familiar process in which both physical and chemical changes take place
- Q20. 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)**
- Q21. Differentiate between aerobic and anaerobic respiration
- Q22. Draw digestive system of ruminants with labelling

**Answer the following questions in details****5X3=15**

- Q23. Write one situation where you have experienced the rust, what is rust? What is the equation of rust formation? How you will prevent rusting      **(1+2+2)**
- Q24. (i) Mention three differences between physical and chemical changes  
(ii) How would you show that setting of curd is a chemical change?      **(3+2)**
- Q25. (i) Can you survive only on raw leafy vegetables/ grass ? Discuss  
(ii) Write one similarity and two differences between nutrition in Amoeba and human being      **(2+3)**