

Date-26/09/24

**ST. THOMAS' SCHOOL, SUNARI**  
**Half Yearly Examination (2024-25)**  
**Class- VIII**  
**Subject- Biology**

Max. Time- 2 Hour

M.M – 80

Name: \_\_\_\_\_

Roll no. \_\_\_\_\_

**General Instructions:**

- Read all the questions carefully before answering.
- All the questions are compulsory (2 questions in section A and 4 questions in section B).
- Don't copy questions in answer script. Pay attention to the correct numbering of answers.
- Maintain good handwriting and pay attention to the margins & neatness.
- The intended marks for questions or part of questions are given in the brackets [ ].

**Question 1. Multiple Choice Questions:**

(15 x 1=15)

- i. Using fertilizers in farming is an example of  
a) No cost production                      b) Low cost production  
c) High cost production                    d) None of these
- ii. Nitrogen, phosphorus and potassium are examples of  
a) Micro-nutrients                          b) Macro-nutrients  
c) Fertilizers                                  d) Both I and II
- iii. Cyperinus and Parthenium are types of  
a) Diseases                                    b).Pesticides  
c) Weeds                                        d).Pathogens
- iv. Mulletts, prawns, mussels are examples of  
a) Marine fishes                              c) Fresh-water fishes  
c)Finned fishes                              d) Shell fish
- v. What is the other name for Apis cerana indica?  
a) Indian cow                                b) Indian buffalo  
c) Indian bee                                 d) None of these
- vi. The micro-organisms which helps in formation of soil is  
a) Bacteria                                    b) Moss  
c) Lichen                                        d) B and c
- vii. Burning of fossil fuels add  
a) CO<sub>2</sub>, SO<sub>2</sub>, NO<sub>2</sub>, gases in air      b) C, SO<sub>2</sub>, N<sub>2</sub>, gases in air  
c. CO, SO<sub>3</sub>, NO<sub>3</sub>, gases in air      d) CH<sub>4</sub>, CO<sub>2</sub>, NO<sub>2</sub>, gases in air
- viii. Greenhouse gases are  
a) Industries                                 b) Rhizobium  
c) Lightening                                 d) All of the above
- ix. Nitrogen fixation can be done by  
a) Industries                                 b) Rhizobium  
c) Lightening                                 d) All of the above
- x. Atmosphere maintain the temperature of earth because  
a) It contains water vapor                b) It hold air, which is bad conductor of heat  
c) It reflects the heat rays                d) It absorbs the heat rays
- xi. In which the reproductive organs are hidden?  
a) Cryptogam                                 b) Phanerogamae  
c) Gymnosperms                              d) angiosperms
- xii. Which phylum of animals is also called flatworms?  
a) Porifera                                    b) Coelenterata  
c) Platyhelminthes                          d) Nematoda
- xiii. What is the exclusive marine phylum?  
a) Echinodermata                            b) Porifera  
c) Cnidarians                                 d) Protozoa
- xiv. The mode of nutrition in fungi  
a) only saprotrophic                        b) saprotrophic or parasitic  
c) only parasitic                              d) none of above
- xv. What is not possessed by bacteria?  
a) membrane bound organelles        b) nucleus

**i. Name the following/ Identified the following:** (5 x 1=5)

- (a) Tissue under the skin that acts as shock-absorber.
- (b) Animals that can maintain a constant body temperature.
- (c) pH of skin.
- (d) Type of epithelium, the epidermis is made of.
- (e) Cells that produce melanin pigment.

**ii. Fill in the blanks:** (5 x 1=5)

- (a) Cells were first observed in cork by \_\_\_ in 1665.
- (b) What is brick to a house is \_\_\_ to an organism.
- (c) The cytoplasm and nucleus make up the \_\_\_.
- (d) Tissues make up \_\_\_.
- (e) Organ systems make up an \_\_\_.

**iii. State whether true (T) or false (F).** (5 x 1=5)

- (a) Unicellular organisms have one-celled body.
- (b) Muscle cells are branched.
- (c) The basic living unit of an organism is an organ.
- (d) Amoeba has irregular shape.
- (e) We should avoid to drink water during winter.

**iv. Give examples of the following:** (5x 1 =5)

- (a) Ball and socket joint
- (b) Hinge joint
- (c) Meristematic tissue
- (d) Viviparous animal
- (e) Insectivorous plant

**v. State one function of each** (5 x 1 =5)

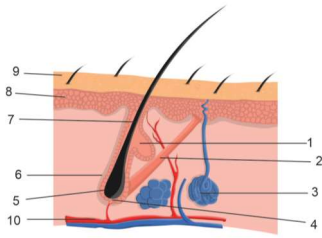
- (a) Gall bladder
- (b) Cell membrane
- (c) Pivot joint
- (d) Cytoplasm
- (e) Pituitary gland

**Section – B ( 40 marks )**

**(Attempt all questions from Section B)**

**Question 3: Answer the following:**

- i. Write two uses of nutrients in our body. (1)
- ii. Give reason: (2)
  - (a) Why is skin described as ‘Master of many tasks’ or ‘Jack of all trades’?
  - (b) we need balanced diet during adolescence period. Why?
- iii. How does the skin help in thermoregulation in the body? (2)
- iv. Write a short note on: (2)
  - (a) Heatstroke
  - (b) Nails
- v. Look at the figure given and answer the questions that follow: (3)
  - (a) Label the parts marked 1–10.
  - (b) Name the derivatives of the skin.
  - (c) Give the role of structures marked by 3, 4, 5, 6, 7 and 9.



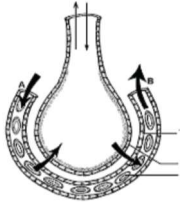
**Question 4: Answer the following questions:**

- i. Write the full form of GHG. (1)
- ii Differentiate between the following: (2)
  - (a) Vasodilation and Vasoconstriction
  - (b) Albinism and Leucoderma
- iii. Define the following. (2)
  - (a) Intercostal muscles
  - (b) Diaphragm
- iv. How are gases exchanged during external and internal respiration? (2)
- v. Given here is an experiment intended to demonstrate the action of the diaphragm. Answer the following questions: (3)
  - (a) Name the parts of the respiratory system represented by label 1-5.
  - (b) What is wrong with this experiment?
  - (c) What happens when part 5 is raised and lowered?



**Question 5: Answer the following questions:**

- i. Give two important functions of spinal chord. (1)
- ii. Write three uses of Medicinal plant. (2)
- iii. Distinguish between (2)
  - (a) Soluble and Insoluble minerals.
  - (b) Seed and zygote.
- iv. What is altitude sickness? (2)
- v. Look at the diagram and answer the following: (3)
  - (i) What process is being shown here?
  - (ii) Name the parts of it.
  - (iii) What is the importance of the process shown here?



**Question 6: Answer the following questions:**

- i. How do the following contribute in inspiration during breathing?
  - (i) Intercostal muscles (ii) Diaphragm (1)
- ii. Give reason for the following: (2)
  - (a) Why is breathing from the nose better than mouth breathing?
  - (b) Why is the respiration rate higher in animals than plants?

- iv. If a person is suffering from jaundice, name the mode of transmission and the organ affected by this disease. List a few general modes of prevention of jaundice.
- v. Write an experiment to measure the volume of expired air.

