

T2-Biology  
Model Question Paper IV  
9th Standard

**Science**

Reg.No. : 

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**I. Answer all the questions**

Time : 02:00:00 Hrs

Total Marks : 70

5 x 1 = 5

**Part-A**

- 1) This is an exotic variety of honey bee  
(a) Apis florea (b) Apis adamsoni (c) Apis indica (d) Apis dorsata
- 2) This insecticide is used to kill root-cutting insects  
(a) Malathion (b) Metasystox (c) Lindane (d) Chloropyrifos
- 3) Silver Revolution means the  
(a) increase in egg production (b) increase in milk production (c) fish and prawn culture (d) rearing of honey bees for honey and wax
- 4) The valves present near the mouth of pulmonary artery and aorta are \_\_\_\_\_ Valves  
(a) tricuspid (b) mitral (c) auriculo-ventricular (d) semilunar
- 5) The biggest storehouse of water is the \_\_\_\_\_.  
(a) pond (b) lake (c) ocean (d) well

**Part-B**

- 6) Smiling involves the working of \_\_\_\_\_ muscles
- 7) The first \_\_\_\_\_ pairs of ribs are called true ribs.
- 8) \_\_\_\_\_ is the large blind pouch of the digestive organ.
- 9) Unscramble the jumbled letters and fill in the blanks:  
The functional unit of the kidney is \_\_\_\_\_.(NORHPEN)
- 10) Animal protein is excreted in the form of \_\_\_\_\_ (Nucleic acid / Uric acid)

5 x 1 = 5

**Part-C**

- 11) \_\_\_\_\_ is the method of growing a single type of fish in a water body
- 12) Honey helps in building \_\_\_\_\_ of blood
- 13) Study the relationship between the given pair and write the missing word/sentence  
Skin : Prevents the entry of infectious agents; WBC : \_\_\_\_\_
- 14) During the time of delivery, the mother undergoes severe labour pain. Name the hormone responsible for it and mention its significance.
- 15) Arrange the following in logical sequence:  
jejunum, ileum, duodenum

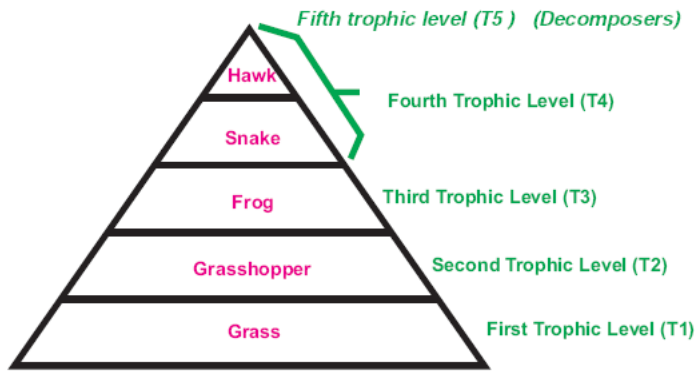
5 x 1 = 5

**Part-D**

- 16) Differentiate between the following: Breeding pond and Stocking pond
- 17) Differentiate between the following: Free range farming and Intensive farming
- 18) Define the following Silage
- 19) Why is it important to improve food resources?
- 20) Honey bees are 'social insects'. Justify.
- 21) How does the cardiac muscle differ from the skeletal muscle?
- 22) Draw the diagrams of the liver and the pancreas. Mark the parts.
- 23) **Assertion:** (A) A pair of testes is located in the scrotum outside the abdominal cavity.  
**Reason:** (B) The sperm formation requires a lower body temperature than the normal body temperature.
  - a. 'A' is right, 'B' is wrong.
  - b. 'B' explains 'A'.
  - c. 'B' is right, 'A' is wrong.
  - d. 'B' does not explain 'A'.
- 24) In higher organisms, the male and the female can be distinguished by certain external features called secondary sexual characters. List some male and female sexual characteristics in humans.
- 25) Smoke causes suffocation. Give reason.
- 26) Define the following Bio-geo chemical cycle

15 x 2 = 30

27) "Carbon is released back into the atmosphere through respiratory activities at each trophic level". Explain in your own words what you understand by the term "trophic level" with the help of the picture given below.



28) Plants and animals are interdependent. Do you agree with this statement? Comment.

29) Burning of fossil fuels creates an imbalance in the carbon cycle. Justify

30) CO<sub>2</sub> and O<sub>2</sub> cycles are interrelated. Justify.

Part-E

3 x 2 = 6

31) pea, green gram, black gram, millets

32) Sahiwal, Holstein Freisian, Red sindhi, Gir

33) Pick out the odd one and give reason.

Rhizobium, Nitrosomonas, Azotobacter, Nostoc

Part-F

2 x 2 = 4

34) Exotic breed of cattle from Holland \_\_\_\_\_ .

35) The Father of white revolution \_\_\_\_\_ .

Part-G

5 x 3 = 15

36) Anbu and Raj have been growing fish fries in their nursery pond for more than two weeks. They have to shift the fish fries to another pond after that. Can you say why?

37) A group of farmers are planning to increase the yield from crops. Make a list of factors that they should consider for crop improvement.

38) Kidneys maintain water-salt balance. Mention its other functions.

39) Write the role of transpiration and abiotic factors in the water cycle.

40) Discuss the role of plants in :

Nitrogen Cycle

Carbon Cycle

Oxygen Cycle

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