

PART - II - BIO - ZOOLOGY

SECTION - A

Note : i) Answer all the questions. ii) Choose the correct answer and write.

8 X 1 = 8

1. The body cavity of Arthropods is filled with
a) haemolymph b) haemoglobin c) uric acid d) amnion
2. "Cell Theory" was forwarded by
a) Embden & Mayer Hof b) T.H. Margon c) Scheiden and Schwann d) Singer and Nicholson
3. The limbless Amphibians are
a) frogs b) toads c) salamanders d) caecilians
4. The number of chromosomes found in Drosophila is
a) 30 - 40 b) 12 c) 8 d) 32
5. The interpace without feathers in pigeon are known as
a) pterylae b) apteria c) alar membrane d) barbs
6. A bone is covered by a double layered sheath called the
a) periosteum b) endosteum c) epiphysis d) growth plate
7. The number of facial bones are
a) 26 b) 25 c) 14 d) 22
8. Many of the cells of the epidermis produce a protein substance called
a) keratin b) melanin c) melanocytes d) sebum

SECTION - B

Note : i) Answer any 4 of the following. ii) Each question carries 2 marks.

4 X 2 = 8

9. What is Pecten?
10. Write short notes on "flame cells".
11. What are the new branches related to cytology?
12. Write the significance of peroxisomes.
13. Mention the different types of joints.
14. Draw a neat labelled diagram of cross section of a hair within a follicle.

SECTION - C

Note : i) Answer any 3 of the following.

ii) Each question carries 3 marks. 16th is compulsory.

3 X 3 = 9

15. Write notes on primates.
16. Discuss the significance of endoplasmic reticulum.
17. Write shortly on "cell theory".
18. State the structure of a nail.
19. Write about the flight muscles of Pigeon.

SECTION - D

Note : i) Answer the following. ii) Each question carries 5 marks.

2 X 5 = 10

20. Write down the general characters of chordates. (OR)
How will you control cancer?
21. Explain the structure of a typical human vertebra. (OR)
Explain the structure of a nephredium with diagram. Mention the different types of nephredia.