

**Q.P. Code : 11233**

**Second Semester B.Sc. Degree Examination, May/June 2019**

*(CBCS – 2018-19 onwards)*

**Zoology**

**Paper II — NON-CHORDATA – Part II**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to Candidates :*

1. *Draw diagrams wherever necessary.*
2. *Answer completely in English.*

**PART – A**

I. Answer the following in one word or one sentence each :

**(10 × 1 = 10)**

1. Name any two excretory organs of arthropod.
2. Which is the basic unit of compound eye?
3. Peripatus is said to be a connecting link. Why?
4. Mention the respiratory pigment present in Unio.
5. What is radula?
6. Mention two types of pedicellariae.
7. Define autotomy.
8. Name the class to which Balanoglossus belongs.
9. Give any two species of silkworm.
10. What is royal jelly?

**PART – B**

II. Answer any **FIVE** of the following :

**(5 × 3 = 15)**

11. Mention the functions of :
  - (a) Mandible
  - (b) Chelate leg
  - (c) Pleopod

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12. Write a note on simple eye in arthropods.
13. Define metamorphosis. Explain ametabola citing an example.
14. Sketch and label the sectional view of shell of Unio.
15. Write a note on bipinnaria larva.
16. List any three affinities of Hemichordata with chordata.
17. Name any three bee products.

**PART - C**

III. Answer any **FIVE** of the following :

(5 × 5 = 25)

18. Describe the male reproductive system of Palaemon.
19. Write a note on booklungs.
20. Enlist any five classes of phylum Mollusca citing an example for each.
21. Explain the digestive system of Unio.
22. Explain the structure of :
  - (a) Auricularia larva
  - (b) Tornaria larva
23. Give an account of silkworm rearing.
24. Write an explanatory note on bee keeping.

**PART - D**

IV. Answer any **TWO** of the following :

(2 × 10 = 20)

25. Enumerate the general characters of Phylum Arthropoda. Give an outline classification of the phylum upto classes with an example for each.
26. Describe the circulatory system in Unio with an appropriate diagram.
27. Sketch, label and explain the water vascular system in Asterias.
28. Write a note on :
  - (a) Prawn preservation
  - (b) Pearl culture