

5/H-63 (v) (Syllabus-2015)

2019

(October)

ZOOLOGY

(Honours)

FIFTH PAPER

(Functional Anatomy, Zoogeography and Adaptations)

Marks : 56

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer Question No. 1 which is compulsory and any four from the rest

1. Write in brief on any three of the following :
4×3=12

- (a) Pseudopodia in Protozoa
- (b) Nephridia in Annelids
- (c) Coral and coral reefs
- (d) Vision in insects
- (e) Neotropical region

(2)

2. Give an account of the different types of canal system found in sponges with suitable diagrams.
8+3=11

3. What is retrogressive metamorphosis? Discuss with reference to Ascidia with suitable diagram.
2+7+2=11

4. Describe in detail on any two of the following :
5½×2=11

- (a) Torsion in gastropods
- (b) Types of mouth parts in insects
- (c) Parasitic adaptations

5. (a) Give a comparative account of Petro-myzon and Myxine. 5½

(b) Write on the affinities in *Balanoglossus*. 5½

6. Define adaptation. Give an account of the adaptive modifications in terrestrial animals under the cursorial mode of life.
2+9=11

7. Define accessory respiratory organs in fish. Discuss different types of accessory respiratory organs with suitable diagrams.
2+7+2=11

20D/159

(Continued)

(3)

8. Write short notes on any two of the following :
5½×2=11

- (a) Parental care in amphibia
- (b) Migration in birds
- (c) Colouration and mimicry

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