

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPF-2191

M.Sc. (Final) Examination, 2022

ZOOLOGY

Paper - VII(c)

(Entomology)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

2 each

1. (i) What is role of sex comb in *Drosophila* ?
- (ii) Define Halopneustic.

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BPF-2191 P.T.O.

- (iii) Differentiate between Cursorial and Saltatorial Legs.
- (iv) Define Ecolysis.
- (v) What is major function of crop in insects ?
- (vi) What do you mean by Sutures of head capsule ?
- (vii) Define alary muscles.
- (viii) Wing coupling.
- (ix) Differentiate nymph from naid.
- (x) What is physogastry ?

Section-B

5 each

2. How the insect evolution took place ?

Or

Write a short note on Fossil's Insects.

3. Differentiate between Pterygota and Apterygota.

Or

Differentiate between Moths and Butterflies.

4. Explain morphology of head of insects.

Or

Give an account of sclerotization of insect cuticle.

5. Describe endocrine system of insects.

Or

Write a short note on Respiratory System of insects.

6. Write a short note on structure of Typical Insect's Egg.

Or

Differentiate between Holometabolous and Hemimetabolous Metamorphosis.

Section–C

7. Describe various types of mouthparts found in insects. 10
8. Describe characteristic features of the order coleoptera and classify up to families. 10
9. Describe thoracic appendages. 10
10. Write short notes on the following :
- (a) Cryptonephridial system
 - (b) Type of ovariole
 - (c) Cleavage in insects 3,4,3
11. Write short notes on the following :
- (i) Type of larvae of insects
 - (ii) Dipause. 5,5