

Total No. of Questions – 10]
(2123)

[Total Pages : 2

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M.Sc. (Zoology) CBS IIIrd Semester Examination
INSECT DIVERSITY AND PHYSIOLOGY
Paper – MZOO–301

Time : Three Hours]

[Maximum Marks : 40

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : The question paper contains 10 questions and each question is of 8 marks. Candidates have to attempt any *five* questions.

1. Give a brief history of Insect classification and describe the characteristics which have made insects the dominant species on the earth. 8

2. (i) Define biosystematics and give the objectives of classification.

(ii) Give the general characteristics of phylum Arthropoda.

(2+3+3=8)

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3. Explain the term tagmosis. Give functional morphology of the mouth parts in insects. 8
4. Write short notes on the following :
- (i) DNA Taxonomy.
 - (ii) Significance of filter chamber.
 - (iii) Tracheation on insects.
 - (iv) Visceral nervous system in insects. (4×2=8)
5. Describe in brief the male reproductive organs in insects. 8
6. Explain pest surveillance to bring out its objectives and basic components. 8
7. What is diapause in insects and explain the role of hormones? 8
8. Give the important components of biological control. Give the potential of *Trichogramma* in biological control. 8
9. Give the *two* most important pests in-okra, potato, Cucurbitaceae vegetables, peas and their management practices. (4×2=8)
10. List the diseases of silkworm and the management practices thereof. 8