B.Sc. Part-III (General) Examinations, 2020
Subject: Zoology
Paper-IV: (New Syllabus)

Full Marks: 50   **Time: 2 Hrs**

The figures in the margin indicate full marks

Candidates are required to give the answer in their own words as far as practicable

1. *Answer any **four** questions of the following*   **5×4=20**

    a) Write the causative agent, symptoms and control of one viral disease of poultry.

    b) Describe rearing method in apiculture.

    c) Comment on waste-water fed fish culture.

    d) Name different poultry breeds with their characteristics.

    e) Elaborate the distribution of two milch breeds of India.

    f) Describe the methods of honey extraction and its preservation.

2. *Answer any **three** questions of the following*   **10×3=30**

    a) Describe the principle of IPM in detail.

    b) Write down the bionomics of *Tribolium casteneum*

    c) Discuss about the life history of *Enterobius sp.*

    d) Write notes on:

        i.   Deep litter system

        ii. Cattle breeding

    e) Discuss about composite fish culture.

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3.   *Answer any **four** questions of the following*   **5×4=20**

   g) Differentiate between:

   a. Food chain and Food web

   b. Sanctuary and National park

   h) Describe the components of ecosystem.

   i) Write the merits and demerits of artificial insemination process of cattle.

   j) State the life cycle of *Ascaris lumbricoides*

   k) Delineate the damage and control measures of *Scirpophaga incertulas.*

   l) Write down the types and functions of lymphocytes.

4.   *Answer any **three** questions of the following*   **10×3=30**

   a) State the method of rearing in deep-litter system. Mention the merits and demerits of this system.

   b) Describe the life history of *Plasmodium vivax* with suitable diagram.

   c) Describe the structure of a typical antibody molecule with suitable diagram.

   d) Mention the special care should be taken for rearing of honey bee.

   e) Describe the life cycle of *Culex sp.* with proper diagram. Write the control measures of *Culex sp.*