

RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

SECOND YEAR [BATCH 2015-18]

B.A./B.Sc. FOURTH SEMESTER (January – June) 2017

Mid-Semester Examination, March 2017

Date : 18/03/2017

Time : 12 noon – 1 pm

ZOOLOGY (General)

Paper : IV

Full Marks : 25

[Use a separate Answer Book for each group]

Group – A

1. Answer **any five** questions : [5×1]
 - a) Mention the scientific name of Muga silkworm.
 - b) Name the resource plant of *Antheraea mylitta*.
 - c) What is clutch or peep?
 - d) What are the major differences between drones and worker honey bees?
 - e) Write down the importance of a 'Super' in beekeeping?
 - f) Distinguish between bee bread and royal jelly.
 - g) After how many days does a queen honey bee emerge from egg?
2. Answer **any one** question : [1×5]
 - a) Write the major differences between *Gallus gallus* and *Gallus varius*. How do you distinguish between Dual breed and Table breed? [2.5+2.5]
 - b) What is the difference between fibroin and sericin? Mention the major symptoms and controlling methods of Flacherie. [2+3]
 - c) Enumerate different roles performed by worker honey bees in a typical bee hive. [5]

Group – B

3. Answer **any five** questions : [5×1]
 - a) Where is Schüffner's dots found?
 - b) What is Löffler's syndrome?
 - c) Write down different morphological forms of *E. histolytica*.
 - d) What is meant by 'Deme'?
 - e) What is Downward classification?
 - f) Define Biological species.
 - g) What is speciation?
4. Answer **any two** questions : [2×5]
 - a) Illustrate the difference between commensalism and mutualism. Mention the name of an intermediate host of *Plasmodium*. Describe the life cycle of *Fasciola sp.* with a flowchart diagram. [1.5+1+2.5]
 - b) Distinguish between Systematics & Taxonomy. "Macrotaxonomy is not possible without the knowledge of Microtaxonomy" – justify. [2+3]
 - c) Define Allopatric species. Write the differences between Alpha taxonomy and Beta taxonomy. [2+3]
 - d) Mention some important functions of classification. Enumerate the major drawbacks of Biological concept of species. [2+3]