

# RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

FIRST YEAR [2017-20]

B.A. /B.Sc. SECOND SEMESTER (January – June) 2018

Mid-Semester Examination, March 2018

Date : 16/03/2018

Time : 11am – 12noon

**ZOOLOGY (General)**

Paper: II

Full Marks: 25

1. Answer **any five** questions of the following: (5 × 2)
  - a) Why sea urchin is a deuterostome? [2]
  - b) What are polar bodies? [2]
  - c) What is spiral cleavage? [2]
  - d) What is balbiany body? [2]
  - e) What are ring centrioles? [2]
  - f) What is retrogressive metamorphosis? [2]
  - g) Why hemichordate is named so? Give an example of Hemichordata? [1 + 1]
2. Answer **any three** questions of the following: (3 × 5)
  - a) Compare between spermatogenesis and oogenesis. Name the pattern of cleavage observed during chick development. [4 + 1]
  - b) State few important features of the sub class Elasmobranchii with suitable examples. Distinguish between homocercal and heterocercal tails in fishes. [4 + 1]
  - c) In which order do the legless amphibians belong? Site an example. Mention three important characteristic features of salamanders. [1 + 1 + 3]
  - d) Distinguish between Ratitae and Carinatae with examples. [5]
  - e) Enumerate the role of sertoli cells in spermatogenesis. Name different accessory egg coverings observed in sea urchin, frog, chick and in mammals respectively. [2 + 3]

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