

RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

SECOND YEAR [2017-20]

B.A./B.Sc. THIRD SEMESTER (July – December) 2018

Mid-Semester Examination, September 2018

Date : 27/09/2018

ZOOLOGY (General)

Time : 12 noon – 1 pm

Paper : III

Full Marks : 25

1. Answer **any five** questions : [5×2]
 - a) What is ecotone?
 - b) Define protocooperation with an appropriate example.
 - c) Mention two major drawbacks of pyramid of biomass.
 - d) What is “Carrying Capacity”?
 - e) Explain allosteric regulation of enzymes.
 - f) What are eicosanoids?
 - g) What are Herring bodies?
 - h) By means of a word diagram explain the regulation of hypothalamus-hypophysial-thyroid axis.

2. Answer **any three** questions : [3×5]
 - a) What are primary and secondary successions? Write down different steps of succession. [2+3]
 - b) Define fundamental niche and realized niche. Which factors do determine the characteristics of a niche? [2+3]
 - c) Why detritus food chain is more complex? Describe the features of the “Exponential Growth Curve”. [2+3]
 - d) Point out the factors responsible for establishing the resting membrane potential of a neuron. Classify acidophils of adenohypophysis. [2+3]
 - e) Briefly explain the ultrastructure of an acinar cell. Enumerate the functions of thyroxine. [3+2]

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