

RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

B.A./B.Sc. FOURTH SEMESTER EXAMINATION, SEPTEMBER 2020

SECOND YEAR [BATCH 2018-21]

ZOOLOGY (General)

Paper : IV

Date : 01/10/2020

Time : 11.00 am – 3.00 pm

Full Marks : 50

Answer all the questions

Group – A

1. a) Define IPM.
b) Mention some of the pre-requisites of IPM.
c) What is 'dead heart'? [2+2+1]
2. a) Why *Bandicota* is considered as a pest?
b) Comment on the damage aspect of *Sitophilus oryzae* as a stored grain pest.
c) What do you mean by 'light trapping'? [2+2+1]
3. a) Differentiate between ETL and EIL.
b) Mention two physical control measures of *Sitophilus oryzae*.
c) Name one chemical rodenticide. [2+2+1]
4. a) Differentiate between male and female moths of *Scripophaga*.
b) Write two unique features of termitaria.
c) What do you mean by 'fungus garden'? [2+2+1]
5. a) State the relationship between adaptation, mutation and evolution.
b) Differentiate with example between primary and secondary volant adaptations.
c) Mention two features of xeric adaptation in camel. [2+2+1]

Group – B

6. a) How can Upward & Downward Classifications be distinguished?
b) Mention the major approaches of the 'New Systematics' propounded by J. S. Huxley (1940). [2.5+2.5]
7. a) "All living organisms are not biological species" – justify with reasons.
b) Differentiate between Microtaxonomy & Macrotaxonomy. [3+2]

Group – C

8. a) Describe pre-erythrocytic and erythrocytic schizogony.
b) What is malarial paroxysm? [3+2]
9. a) Illustrate the characteristics of the trophozoite stage of *Entamoeba histolytica* with a suitable diagram.
b) Mention the pathogenicity of this parasite. [(2+1)+2]
10. a) What is protocooperation?
b) Compare parasitism with predation.
c) Define phoresis. [2+2+1]

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