

8243

M.Sc. IIIrd SEMESTER EXAMINATION, 2019

ZOOLOGY

Paper - III

LIMNOLOGY AND FISHERIES – I : LIMNOLOGY

Time: Three Hours

Maximum Marks: 80

PART – A

[Marks: 20]

Answer all questions (50 words each).

All questions carry equal marks.

PART – B

[Marks: 40]

Answer five questions (250 words each).

Selecting one from each unit. All questions carry equal marks.

PART – C

[Marks: 20]

Answer any two questions (300 words each).

All questions carry equal marks.

PART – A

Q.1 Give the answer of following questions.

- (i) Give the name types of lakes on the basis of biological productivity.
- (ii) What is temperate lakes and its example?
- (iii) What is poikilothermy?
- (iv) What is heat budget?
- (v) What is buffer substance in Sea water?
- (vi) What is compensation point?
- (vii) What is temporal distribution of plankton?
- (viii) What is benthos?
- (ix) Define indices of lake productivity.
- (x) What is Eutrophication?

PART – B

UNIT –I

Q.2 Describe polar, temperate and tropical lakes.

Q.3 Classify lakes on the basis of biological productivity.

UNIT –II

Q.4 Discuss turbidity of lake water.

Q.5 Explain role of light in Lakes.

UNIT –III

Q.6 Write short note on -

(a) pH

(b) BOD

Q.7 Give detail account of phosphorus cycle.

UNIT –IV

Q.8 Describe limnological significance of plankton and nekton.

Q.9 Explain benthos and its importance.

UNIT –V

Q.10 Describe eutrophication.

Q.11 Explain wetlands.

PART – C

Q.12 Give detail account of origin of lakes.

Q.13 Explain thermal stratification of Lakes.

Q.14 Describe carbon cycle and CO₂.

Q.15 Explain energy flow with suitable model.

Q.16 Give detail account of water purification techniques.
