

6242

M.Sc. ZOOLOGY Ist SEMESTER EXAMINATION, 2019

Paper – II

ETHOLOGY AND EVOLUTION

Time: Three Hours

Maximum Marks: 80

PART – A (खण्ड – अ)

[Marks: 20]

Answer all questions (50 words each).

All questions carry equal marks.

सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर 50 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART – B (खण्ड – ब)

[Marks: 40]

Answer five questions (250 words each).

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

प्रत्येक इकाई से एक-एक प्रश्न चुनते हुए, कुल पाँच प्रश्न कीजिए।

प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART – C (खण्ड – स)

[Marks: 20]

Answer any two questions (300 words each).

All questions carry equal marks.

कोई दो प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART – A

Q.1 Answer the following questions -

- (i) What is taxis?
- (ii) What is FAP?
- (iii) Define altruism.
- (iv) What is Swarming?
- (v) What is imprinting?
- (vi) What is polygamy?
- (vii) What is genetic drift?
- (viii) Define geographical isolation.
- (ix) Define allopatric speciation.
- (x) What is petrification?

PART – B

UNIT –I

Q.2 Describe methods of studying behavior.

Q.3 Explain taxis.

UNIT –II

Q.4 Describe social organization and its advantages.

Q.5 Briefly describe parental care in fishes.

UNIT –III

Q.6 Explain learning and its types.

Q.7 Describe biological rhythms.

UNIT –IV

Q.8 Give an account of isolation.

Q.9 Write an essay on natural selection.

UNIT –V

Q.10 Describe micro and macro evolution.

Q.11 Give detail account of fossils.

PART – C

Q.12 Write an essay on fixed action pattern.

Q.13 Explain primate societies.

Q.14 Give detail account of courtship.

Q.15 Describe Hardy-Weinberg law of genetic equilibrium.

Q.16 Describe Human Evolution.
