JAZ-003-018305 Seat No. _____

M. Sc. (Zoology) (Sem. III) (CBCS) Examination

December - 2019

Z - 317 : Animal Ecology

(Old Course)

Faculty Code : 003

Subject Code : 018305

Time : $2\frac{1}{2}$ Hours] [Total Marks : **70**

1 Answer the following : (Any **Seven**) **2×7=14**

(a) Define Population density and enlist different methods of measuring population density.

(b) Define Bio-deterioration.

(c) What is population demography?

(d) Define macro and micro-fouling.

(e) Define community.

(f) What are the anti-corrosion applications of wood in the sea?

(g) Define shore.

(h) Classify toxicants and xenobiotics.

(i) What is ecotone?

(j) Define Bioassay.

2 Answer the following : (Any **Two**) **7+7=14**

(a) How do plants defend against herbivores and predators? Describe with suitable example.

(b) Briefly describe the r/k selection.

(c) Define population dynamics. Add a note on population demography.

3 Answer the following : **7+7=14**

(a) Write notes on distribution and adaptations of Benthos.

(b) Describe the concept of Community and which indices are relevant to community studies give suitable example.

OR

3 Answer the following : **7+7=14**

(a) Describe the ecological niche.

(b) Write a brief description of predation and prey population

4 Answer the following : **7+7=14**

(a) Describe the role of biotechnology in environmental pollution control.

(b) Write a short note on the zonation of intertidal habitats. Add a note on adaptations of the organisms inhabiting those habitats.

5 Answer the following : (Any **Two**) **7+7=14**

(a) Briefly describe the properties of any population.

(b) Write a short note on keystone species.

(c) Describe the indicator, test and monitoring organisms.

(d) Give a note on 'Red Tides'.