



**JAZ-003-1183005** Seat No. \_\_\_\_\_

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

**(W.E.F. 2016) Examination**

**December – 2019**

**ZOOL - 317 : Animal Ecology**

**(Elective)**

**Faculty Code : 003**

**Subject Code : 1183005**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

- 1 Answer the following : (any seven) **2×7=14**
- (a) What are the reasons of population dispersal ?
  - (b) What is logistic growth ? How does it differ from exponential growth ?
  - (c) What is biotic potential ?
  - (d) Define Keystone species.
  - (e) Define macro and micro-fouling.
  - (f) Define Bioassay.
  - (g) Which mangrove tree species occur in Gujarat ?
  - (h) Classify toxicants and xenobiotics.
  - (i) Define shore.
  - (j) Define Bio-deterioration.
- 2 Answer the following : (any two) **7+7=14**
- (a) Define population dynamics. Add a note on population demography.
  - (b) Write a notes on mimicry and camouflage.
  - (c) Briefly describe the r/k selection.
- 3 Answer the following : **7+7=14**
- (a) Write a brief description of animal defenses against predation.
  - (b) Describe the distribution and adaptations of Benthos.

**OR**

- 3** Answer the following : **7+7=14**
- (a) Briefly describe the indicator, test and monitoring organisms.
  - (b) How the Coral reef ecology is sustained and distributed by the organism ? Describe briefly.
- 4** Answer the following : **7+7=14**
- (a) Write a brief note on ecotoxicology. Add a note on lethal and sub lethal effects.
  - (b) Write short notes on Environmental policy and their impact assessment.
- 5** Answer the following : (any two) **7+7=14**
- (a) Briefly describe the measurement of population indices taking example.
  - (b) Write a short note on community structure.
  - (c) Describe the environmental monitoring methods.
  - (d) Write a short note on befouling. Add a note on biocides.
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