



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

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

**November / December – 2017**

**ZOOL-317 : Animal Ecology**

**Faculty Code : 003**

**Subject Code : 1183005**

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

[Total Marks : 70

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

- (a) Define heterotroph with examples.
- (b) What is a community? Give examples.
- (c) Write the definition of ecology.
- (d) Define benthos. Give examples.
- (e) What is mortality ?
- (f) Define demography.
- (g) What are xenobiotics ?
- (h) What is environmental monitoring?
- (i) Define shore.
- (j) What is a population? Give examples.

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

- (a) Briefly describe the significance of mimicry and camouflage in animals
- (b) Write a brief note on the properties of any population
- (c) Briefly describe the distribution and adaptations of benthos

**3 Answer the following : 7×2=14**

- (a) Describe the ecological niche with suitable examples
- (b) Define r/K selection? Briefly explain its significance

**OR**

- 3** Answer the following : **7×2=14**
- (a) What is the keystone species? Add a note on its significance in community structure
  - (b) Briefly describe the community indices and their significance
- 4** Answer the following : **7×2=14**
- (a) Describe the zonation of the intertidal habitats with suitable examples
  - (b) Write a short note on 'Red Tide' and its environmental implications
- 5** Answer the following : (Any **Two**) **7×2=14**
- (a) Write a note on ecotone with examples
  - (b) Describe briefly the population indices with suitable examples
  - (c) Write a short note on the food web with examples
  - (d) Briefly describe the biofouling and its control
-