



**MBZ-003-0492001** Seat No. \_\_\_\_\_

**B. Sc. / M. Sc. (Applied Physics) (Sem. II)  
(CBCS) Examination**

**April / May - 2018**

**Paper - V : Environmental Studies  
(New Course)**

**Faculty Code : 003**

**Subject Code : 0492001**

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

[Total Marks : 70

**1** Attempt any **seven** short questions : (Two marks each) **14**

- (1) What is ecology? Briefly describe.
- (2) What is salinity? Name the salts responsible for salinity.
- (3) What is mineralization and humification?
- (4) What is biosphere and cryosphere?
- (5) What is the difference between herbivores and carnivores?
- (6) What is ecological pyramids? Give the names of different ecological pyramids.
- (7) What is mangroves and their adaptation mechanism?
- (8) What is eutrophication & biomagnification?
- (9) What is bioremediation and phytoremediation?
- (10) What is Montreal protocol and Kyoto protocol?

**2** (A) Write answers of any **two** : **10**

- (1) Describe the categories of the environment.
- (2) Write a note on physical and chemical properties of the water.
- (3) What is ecosystem? Describe the types.
- (4) Give an account on biotic factors.

- (B) Write answers of any **one** : 4
- (1) Give a brief account on types of the rocks.
  - (2) Describe the estuary.
- 3** (A) Write answers of any **two** : 10
- (1) Write a short note on atmosphere.
  - (2) Give a brief note on freshwater ecosystem.
  - (3) Exemplify thermal stratification in aquatic ecosystem.
  - (4) Describe the zonation in marine ecosystem.
- (B) Write answers of any **one** : 4
- (1) Write a short note on productivity of the ecosystem.
  - (2) What is soil? Write a note on soil profile.
- 4** (A) Write answers of any **two** : 10
- (1) Write a detailed account on autotrophic and heterotrophic components.
  - (2) Write a note on biosphere and the interactions take place in biosphere.
  - (3) Give a brief account in green house effect.
  - (4) Write a note on soil pollution.
- (B) Write answers of any **one** : 4
- (1) Give an account on role of heavy metals in pollution and its effects.
  - (2) Explain food chain and food web.
- 5** (A) Write answers of any **two** : 10
- (1) Give a note on adverse effects of air pollution on human and plants.
  - (2) Write a note on water pollution.
  - (3) Define ozone layer depletion.
  - (4) Write a detailed account on global warming.
- (B) Write answers of any **one** : 4
- (1) Give a note on wastewater treatment in detail.
  - (2) Exemplify acid rain and effects.