



**HDY-003-1133004**

Seat No. \_\_\_\_\_

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

**November / December – 2017**

**BT-314 : Environmental Biotechnology - I**

*(Elective)*

**Faculty Code : 003**

**Subject Code : 1133004**

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

[Total Marks : 70

1 Answer the following : (Any Seven out of Ten, each of 14  
02 marks)

- (1) What is Microbial degradation?
- (2) What is bioremediation?
- (3) What is afforestation?
- (4) What are radioactive wastes?
- (5) What is reforestation?
- (6) Define the term "Biodiversity".
- (7) What are recalcitrant compounds?
- (8) Enlist different bacteria useful to clean-up oil spill.
- (9) Enlist the impacts of pollutants on environment.
- (10) What is biomagnification?

2 Answer the following : (Any Two out of Three, each of 14  
07 marks)

- (a) How would you remove oil spills and grease deposits from environment using microbes?
- (b) Write a short note on "Bio pesticides".
- (c) What are Biofertilizers? Discuss.

- 3** Answer the following : **14**
- (a) Write a note on "Application of mycorrhizae in reforestation".
  - (b) Discuss molecular mechanisms of radiation resistance in microbes.

**OR**

- 3** Answer the following : **14**
- (a) Discuss how *Dienococcus* sp. is useful in bioremediation of radioactive wastes".
  - (b) Write a note on Biogas production.
- 4** Answer the following : **14**
- (a) What is conservation of energy? Discuss.
  - (b) What is global warming? Discuss its future impacts.
- 5** Answer the following : (any two out of four, each of 07 marks) **14**
- (a) How would you manage and protect endangered species ? Discuss your ideas and give innovative suggestions.
  - (b) Write a note on "Biodiversity"
  - (c) Discuss factors threatening biodiversity.
  - (d) What are the effects on heavy metals in food chain?

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