

INDIAN MARITIME UNIVERSITY
(A Central University, Govt. of India)

B.Tech. (Marine Engineering) - Semester VI
December 2015 End Semester Examinations

Environmental Science & Technology

Subject Code: UG11E1603

Time: 3 hrs
Date: 28.12.2015

Max Marks: 100
Pass Marks: 50

Part-A

(3x10=30 Marks)

Compulsory Questions

1. a) Bring out the need of public awareness to conserve our environment.
- b) Explain food chain & food web.
- c) What is the relation between DO and BOD.?
- d) Differentiate cyanobacteria and chemosynthetic bacteria.
- e) What are the concepts of EIA?
- f) Describe the following:
i) solid waste ii) e-waste
- g) Define autoecology & synecology.
- h) Comment on the concepts of community.
- i) Define global warming and acid rain.
- j) Explain the following: Ecotone and Edge effect

Part-B

(5x14 = 70 Marks)

Answer any five of the followings

2. a) Explain physiochemical and biological factors in environment. (7)
- b) Explain the structure and composition of hydrosphere, lithosphere and biosphere (7)
3. What is meant by biogeochemical cycles and write a brief account on the carbon cycle and nitrogen cycles in the environment? (14)
4. a) Elucidate in detail about the classification and losses of biodiversity. (7)
- b) Describe the term hotspot in biodiversity? (7)
5. Discuss the sources, effects and control measures of air pollution? (14)

6. a) What is sustainable development ?What are the critical objectives? (7)
b) What are the steps of biomedical wastes handling and management? (7)

7. Write an account of the following: (5+4+5)

- a) Environment Impact Assessment
- b) Environment Management Plan
- c) Environment Audit Guidelines & Methodologies

8. Describe the following : (7+7=14)

- a) Macrophytes
- b) Phytoplanktons and zooplanktons
