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Total No. of Questions: 09

# B.Tech.(Marine Engg.) (2012 Batch) (Sem.-7) ENVIRONMENT SCIENCE AND ENGINEERING

Subject Code: BTMR-704 M.Code: 74253

Time: 3 Hrs. Max. Marks: 60

#### **INSTRUCTIONS TO CANDIDATES:**

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

### **SECTION-A**

## 1. Answer briefly:

- a) What are the components of the Environment?
- b) Why is ecological energy flow important in the Ecosystem?
- c) Why is oil pollution an important issue in Marine Pollution?
- d) What is meant by a hazardous waste?
- e) Define Biodiversity. Why is it important?
- f) List any four ecological benefits of coral reefs.
- g) What are causative pollutants which lead to ozone depletion?
- h) Define Air Quality Index.
- i) List any two mitigation measures of the 'Increasing Sea Level'.
- j) Mention any two major points of discussion in 'Paris Treaty'.



### **SECTION-B**

- 2. Discuss the strategy for natural resource consumption from sustainable development perspective.
- 3. Discuss the Carbon cycle and explain the issue of Global Warming.
- 4. List the major pollutants encountered in ship dismantling yards.
- 5. Write a short notes on:
  - a) Land pollution
  - b) Water logging and salinity
- 6. Explain briefly 4R's concept of Waste Management.

#### **SECTION-C**

- 7. List and explain the major considerations to be made for a coastal developmental project. Mention and explain the provisions of Indian laws related to coastal development.
- 8. Explain the following:
  - a) Clean Technology
  - b) Waste treatment methods for ships
- 9. a) Discuss the steps involved in environmental impact assessment.
  - b) Explain and contrast between precautionary principle and polluter pays principle.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

**2** M-74253 (S2)-743