

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations- June-July 2019
B.Tech (Marine Engineering)
Semester – VI
ENVIRONMENTAL SCIENCE & TECHNOLOGY (UG11E2603)

Duration: 3 Hrs

Max Marks: 100

Date:5-7-2019

Pass Marks: 50

Part – A

(3 x10 = 30 Marks)

(Compulsory Questions)

1.
 - a) Define Biodiversity.
 - b) Explain food chain & food web.
 - c) What is the relation between DO and BOD.?
 - d) Differentiate between Climate and Weather.
 - e) What are primary pollutants and secondary pollutants, describe with suitable examples?
 - f) Describe the following:
 - i) solid waste
 - ii) e-waste
 - g) Define Population Ecology and Landscape ecology.
 - h) What are the sources of water pollution?
 - i) Define global warming and acid rain.
 - j) Explain Environmental Impact Assessment (EIA).

PART – B (5 x14 = 70 Marks)

(Answer any five of the following)

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 bio geochemical 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 levels of biodiversity. (7)
- b) Describe the term hotspot in biodiversity? (7)
5. Discuss the sources ,effects and control measure 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. a) What is Environmental Audit? Write the benefits of Environmental Audit. (7)
- b) Explain briefly about the Environmental Impact assessment, Management & monitoring plan. (7)
8. Write in detail about Marpol 73/78 mentioning about its annexure. (14)
