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***B.Tech. Degree I Semester Examination in
Marine Engineering December 2019***

**19-208-0106 ENVIRONMENTAL STUDIES AND TECHNICAL COMMUNICATION
(2019 Scheme)**

Time : 3 Hours

Maximum Marks : 60

**PART A
ENVIRONMENTAL STUDIES**

(2 × 15 = 30)

- I. (a) Role of individuals in conservation of natural resources. (5)
 (b) What are the structure and functions of forest ecosystem? (5)
 (c) What are the major threats to biodiversity? (5)
- OR**
- II. (a) Explain briefly the process of ecological succession. Explain the hydrosere with stages? (10)
 (b) Define alpha, beta and gamma diversity. (5)
- III. (a) What are the major causes of water pollution? (5)
 (b) What is acid rain? How it forms? (5)
 (c) What is photochemical smog? How it forms? (5)
- OR**
- IV. (a) Define:
 (i) Global warming (2)
 (ii) Ozone layer depletion (2)
 (iii) Crown corrosion (2)
 (iv) Thermal Pollution (2)
 (v) Electrostatic precipitator (2)
 (b) Problems of population explosion on environment. (5)

**PART B
TECHNICAL COMMUNICATION**

(3 × 15 = 45)

- I. (a) Enumerate the essentials of communication. (5)
 (b) Define verbal communication. Explain advantages and disadvantages. (5)
 (c) Give an account of the barriers to communication. (5)
- OR**
- II. (a) Draft an application to the post of Marine Engineer. Prepare a resume for the post. (5)
 (b) What are the features of a good report? (5)
 (c) Draft a letter to the Editor of "The Hindu" about corruption in public life. (5)

(P.T.O.)

- III. (a) Define memo. Describe layout of memos. (5)
 (b) Examine the advantages of agenda in a meeting. (5)
 (c) Prepare minutes of an imaginary meeting. (5)
- OR**
- IV. (a) Describe a good reader's reading strategies. (5)
 (b) Explain kinesics, proxemics and chronemics. (5)
 (c) Select a subject for debate and present arguments. (5)
- V. (a) The role of social media in public life. Discuss. (400 words) (10)
 (b) Write down five nautical terms. Explain. (5)
- OR**
- VI. (a) Make suggestions to resolve communication problems of mariners. (10)
 (200 words)
 (b) Rewrite as directed: (5)
 (i) "Did Bill give you that ring?" (Use reported in speech)
 (ii) Can you drink tea? (Answer in the negative)
 (iii) He will not come unless(Complete the sentence)
 (iv) Don't disturb the baby; it (sleep) now. (Use correct tense)
 (v) A child longs for affection (Put into plural)
