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***B.Tech. Degree I Semester Regular/Supplementary Examination in
Marine Engineering November 2023***

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

(Use separate answer booklets for Part A and Part B)

Time: 3 Hours

Maximum Marks: 60

PART – A: ENVIRONMENTAL STUDIES

Course Outcome

On successful completion of the course, the students will be able to:

CO1: Identify the natural resources and suitable methods for conservation and sustainable development.

CO2: Realize the importance of eco system for maintaining ecological balance.

CO3: Identify environmental pollutants and abatement mechanisms.

CO4: Understand environmental problems arising due to developmental activities and population growth.

Bloom's Taxonomy Levels (BL): L1 – Remember, L2 – Understand, L3 – Apply, L4 –Analyze, L5 – Evaluate,
L6 – Create

PI – Programme Indicator.

		(2 × 15 = 30)	Marks	BL	CO	PI
I.	(a) Describe the different ground water yielding geological structures.	8	L1	1	7.2.1	
	(b) Explain the causes and effects of deforestation.	4	L2	1	7.1.2	
	(c) List the problems associated with dams.	3	L1	1	7.1.2	
	OR					
II.	(a) Categorize Eltonian pyramids.	4	L4	2	7.1.2	
	(b) Explain the biogeographical classification of India.	8	L2	2	7.2.1	
	(c) Differentiate between In-situ and Ex-situ conservation.	3	L2	2	7.2.1	
III.	(a) Describe major classes of water pollutants.	6	L2	3	7.1.1	
	(b) Write a short note on natural and anthropogenic sources of air pollution.	5	L1	3	7.1.2	
	(c) Explain different types of sanitary landfill methods.	4	L2	3	7.2.1	
	OR					
IV.	(a) What are the objectives of watershed management?	3	L1	4	7.2.1	
	(b) Examine the consequences of climate change.	4	L3	4	7.1.2	
	(c) What is meant by nuclear fallout?	2	L1	4	7.1.2	
	(d) What is meant by Greenhouse effect? What are the major causes of Greenhouse emissions?	4	L1	4	7.1.2	
	(e) What is meant by Global Dimming?	2	L1	4	7.1.2	

Bloom's Taxonomy Levels:

L1 – 45%, L2 – 41%, L3 – 7%, L4 – 7%.

(P.T.O.)

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PART – B: TECHNICAL COMMUNICATION**Course Outcome**

On successful completion of the course, the students will be able to:

CO1: Understand basic grammar principles and comprehend English speech sound system, stress and intonation.

CO2: Speak English at the formal and informal levels and use it for daily conversation, presentation, group discussion and debate.

CO3: Read, comprehend and answer questions based on literary, scientific and technological texts.

CO4: Write instructions, recommendations, check lists, CV, process description, letters and reports.

Bloom's Taxonomy Levels (BL): L1 – Remember, L2 – Understand, L3 – Apply, L4 – Analyze, L5 – Evaluate, L6 – Create

PI – Programme Indicator.

		(3 × 15 = 45)	Marks	BL	CO	PI
I.	(a) What are the organizational barriers to communication?		5	L1	3	10.1.1
	(b) Describe the 7 Cs of effective communication.		5	L1	3	10.1.1
	(c) What is noise in communication? Explain channel noise and semantic noise.		5	L1	3	10.1.1
OR						
II.	What is non-verbal communication? Describe kinesics, proxemics and chronemics in detail.		15	L1	3	10.1.1
III.	What is group discussion? Explain its characteristics. Describe the components evaluated in a group discussion.		15	L1	3	10.1.1
OR						
IV.	(a) What is an interview? What are its objectives? What are the skills and attributes required of employees?		8	L1	3	10.1.1
	(b) Explain minutes with an example.		7	L3	4	10.1.3
V.	(a) What is a report? What are the characteristics of a report?		7	L1	3	10.1.1
	(b) Write a letter of complaint to the Sales Manager of a company asking for repair, replacement or compensation for some damaged goods that you had ordered.		8	L3	4	10.1.3
OR						
VI.	(a) Fill in the blanks with the appropriate form/rewrite as directed.		7	L2	1	10.1.2
	(i) If I ____ your money, I ____ it to you. (find, return) - Use the correct forms of the verb in the first conditional.					
	(ii) He goes to the office ____ foot (in, on, by).					
	(iii) They have finished the work. (Change to passive voice).					
	(iv) Ajay is an intelligent boy in our class. (Change to the superlative degree).					
	(v) Anu has read the book yesterday evening. (Correct the sentence).					
	(vi) You are a good student, but you will be ____ if you do not work hard (deep in water, in deep water, in deep sea).					
	(vii) Either your eyesight or your brakes ____ bad. (is, are).					
(b) Write an essay in about 500 words on banning the use of plastics.		8	L3	3	10.1.3	

Bloom's Taxonomy Levels:

L1 – 67%, L2 – 8%, L3 – 25%.