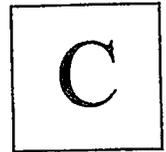


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***B.Tech. Degree I Semester Regular/Supplementary Examination in
Marine Engineering December 2024***

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

(Use separate answer books 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

(Answer <i>ALL</i> questions)		(2 × 15 = 30)	Marks	BL	CO	PI
I.	(a) Describe the classification of water resources. Explain how does the urbanization lead to its over exploitation.		6	L1	1	7.2.1
	(b) What are the different types of coal and explain its extraction methods?		4	L1	1	7.1.1
	(c) Write a short note on the over exploitation of mineral resources and explain the impacts of mining.		5	L1	1	7.1.1
OR						
II.	(a) Explain the structure and functions of marine ecosystem.		5	L2	2	7.1.2
	(b) Explain the direct and indirect values of biodiversity.		5	L2	2	7.1.2
	(c) What are the major threats to biodiversity and discuss the various conservation measures?		5	L2	2	7.1.2
III.	(a) Write a short note on major causes of marine pollution.		4	L1	3	7.1.1
	(b) Define photochemical smog. Explain the reaction involved in the formation of the same.		5	L1	3	7.1.1
	(c) Differentiate Temporary Threshold Shift (TTS) and Noise Induced Permanent Threshold Shift (NIPTS).		3	L2	3	7.1.1
	(d) Discuss the ways to reduce the air pollution in metropolitan cities.		3	L3	3	7.1.2
OR						
IV.	(a) What are the various disaster management steps to be taken during earth quakes, floods and landslides?		5	L5	4	7.2.2
	(b) Briefly explain on greenhouse effect and global warming.		5	L1	4	7.2.1
	(c) What is the role of information technology in environmental protection and human health?		5	L4	4	7.2.1

Bloom's Taxonomy Levels

L1 – 48.33%, L2 – 30%, L3 – 5%, L4 – 8.33%, L5 – 8.33%.

(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

		(Answer <i>ALL</i> questions)	(3 × 15 = 45)	Marks	BL	CO	PI
I.	(a)	What is communication? Describe the 7 Cs of effective communication.		5	L1	3	10.1.1
	(b)	What are the interpersonal barriers to communication? Elaborate.		5	L1	3	10.1.1
	(c)	What is verbal communication? What are vocal cues and explain how they are an important part of effective speaking?		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.	(a)	What should a technical description include? Give the steps of a process description with a suitable example detailing a process.		10	L2	2	10.1.1
	(b)	What should a meeting notice include and how is it different from an agenda?		5	L2	2	10.1.1
OR							
IV.	(a)	Write a letter to the editor of a news paper highlighting the importance of marine engineering in sustainable development.		8	L1	3	10.1.1
	(b)	What are the 3Ps of a meeting? Describe.		7	L1	4	10.1.1
V.	(a)	What is a feasibility report? Write a sample of the body of a feasibility report.		7	L3	4	10.1.3
	(b)	An electronic gadget purchased by your department last month is not functioning. Write a letter of complaint to the manufacturer who has given you a guarantee for one year.		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 (work) harder, I (pass). - Use the correct forms of the verbs in the second conditional.					
	(ii)	They will have finished the project. (Change to passive voice)					
	(iii)	John said, "Linda did all the work." (Change to reported speech)					
	(iv)	One of the keys do not fit the lock. (Correct the sentence)					
	(v)	It is better not to until the negotiations are finished. (rock the boat, be deep in water, be all at sea)					
	(vi)	We met them on yesterday morning at the seminar. (Correct the sentence)					
(b)	Write an essay in about 500 words on the importance of emotional intelligence in communication.			8	L3	4	10.1.3

Bloom's Taxonomy Levels

L1 – 50%, L2 – 24.44%, L3 – 25.56%.