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ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)

End Semester Examination – Nov/Dec 2023

B.E.Civil Engineering

7<sup>th</sup> Semester**CE 5028 COASTAL ZONE MANAGEMENT**

(Regulation 2019)

Time:3hrs

Max.Marks: 100

CO1	Describe The Coastal Zone Regulations, Coastal Processes And to identify natural, engineering and human components on the coast.
CO2	Able to interpretation and analysis of coastal issues to determine appropriate approaches in coastal management and able to communicate effectively in speech and writings
CO 3	Able to learn about different ecosystem available in coastal zones and their importance
CO4	Able to learn about coastal erosion and accretions, impacts of sewage disposal
CO5	Able to understand about coastal regulations, its laws and policies

**BL – Bloom's Taxonomy Levels**

(L1-Remembering, L2-Understanding, L3-Applying, L4-Analysing, L5-Evaluating, L6-Creating)

**PART- A ( 10 x 2 = 20 Marks )**

(Answer all Questions)

Q.No	Questions	Marks	CO	BL
1	Why we need Coastal Zone Management?	2	1	L2
2	Define Intertidal Zone.	2	1	L2
3	Briefly write about placer deposits.	2	2	L2
4	Write about types of Marine sediments.	2	2	L1
5	Draw a neat sketch of types of Estuary	2	3	L2
6	List out the methods for monitoring the marine ecosystem	2	3	L1
7	Define Beach nourishment.	2	4	L2
8	How sewage disposal impacts on Marine ecosystem?	2	4	L2
9	Draw with neat sketch of Coastal Boundaries.	2	5	L1
10	What are Policy options for coastal management?	2	5	L1

**PART- B ( 5 x 13= 65 Marks)**

Q.No	Questions	Marks	CO	BL
11 a)	Discuss about different types of Coastal landforms with neat sketch.	13	3	L4
OR				
11 b)	Explain about Sand dunes and different forms of sand dunes with neat sketch	13	3	L4

12 a)	Write about Renewable and non Renewable Energy of ocean with neat sketch.	13	2	L4
<b>OR</b>				
12 b)	Explain about living marine resources and Nonliving marine resources.	13	3	L4
13 a)	Discuss how Climate change effect on Living Marine ecosystem	13	3	L3
<b>OR</b>				
13 b)	Discuss in detail how Human impacts on marine ecosystem.	13	3	L3
14 a)	Explain the Hard Engineering measures and Soft Engineering measures for coastal protection.	13	4	L4
<b>OR</b>				
14 b)	Explain in detail the causes and effects of Sea water intrusion with neat sketch.	13	4	L4
15 a)	Explain with neat sketch of CRZ notification 2019.	13	5	L3
<b>OR</b>				
15b)	Describe in detail the policies and laws governing coastal zones at national and international level.	13	5	L3

**PART- C(1x15=15Marks) (Compulsory Question)**

Q.No	Questions	Marks	CO	BL
16.i)	Why there is less wave action in Palk bay region when compare to Gulf of Mannar region of India?	5	1	L5
ii)	Explain in detail about the importance of Indian Coast with neat sketch.	10	1	L5

