

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Fifth Semester**Civil Engineering***CE3025 - Airport and Harbours***Regulations - 2021**Duration : 3 Hrs**Maximum : 100 Marks****PART - A (ANSWER ALL QUESTIONS) (Marks 10*2=20)***

<i>Q.No</i>	<i>Questions</i>	<i>BTL</i>	<i>CO</i>	<i>Marks</i>
1.	Show the outline of ICAO master planning process.	L1	1	2
2.	What is clear zone?	L1	1	2
3.	List the components of an airport.	L2	2	2
4.	What are the factors influencing runway length?	L2	2	2
5.	Differentiate runway and taxiway.	L4	3	2
6.	Define exit taxiway.	L1	3	2
7.	How is breakwater classified?	L1	4	2
8.	Distinguish between the natural and artificial Harbour.	L4	4	2
9.	State wave action in coastal engineering.	L1	5	2
10.	What do you mean by reclamation in coastal engineering?	L2	5	2

PART - B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a What is an airport master plan? Briefly describe the steps in its formulation.	L2	1	16
	Or			
	b Write about a Case study of any one Typical airport layout with suitable drawings.	L2	1	16
12.	a Explain with neat sketch the typical layout of airport based on runway configuration.	L2	2	16
	Or			
	b Briefly explain about the Geometric design of airport runways.	L2	2	16
13.	a Distinguish between Type I and Type II wind rose diagrams. Explain how the optimum runway orientation is determined?	L4	3	16
	Or			
	b Discuss briefly in various runway and taxiway markings. With neat sketches.	L4	3	16

14.	a	Draw a neat sketch of a harbor layout and show the Various Components. Mention the objectives of each.	L3	4	16
		Or			
	b	Explain in detail about piers, quays and docks along with their salient features and application.	L3	4	16
15.	a	Explain various methods of shore protection and coastal reclamation.	L2	5	16
		Or			
	b	Explain the key provisions of the Coastal Regulation Zone (CRZ) Notification- 2011.	L2	5	16