M.E. First Semester (Civil Engineering (Transpo. Engg & Manag.)) (New - CGS)

13106: Docks Harbour and Airport Engineering: 1 SFTER 4

P. Pages: 1 Time: Three Hours			AU - 3333 Max. Marks: 80
	Note	es: 1. All question carry equal marks. 2. Answer any five questions. 3. Assume suitable date wherever necessary. 4. Illustrate your answer necessary with the help of neat sketches. 5. Use of pen Blue/Black ink/refill only for writing book.	
1.	a)	Define a port? State the difference between port and Harbour.	8
	b)	Explain the terms Littoral drift - Diffraction of waves.	8
2.	a)	Differentiate between - Dry docks and wet docks - Gate and lock gate	8
	b)	Describe - Mooring and Mooring accessories.	8
3.		Attempt any two	
	a)	What are floating signals? Describe various types of floating signals.	8
	b) c)	Why shore protection works are necessary? Explain the common forms of shore protection works. What are the functions of breakwater? List various types of breakwater.	÷ 8 8
4.	-,		
)	Attempt any two. Explain - Cargo handling capacity of a port.	8
	a) b)	Explain - how the wings of an aircraft helps to rise in air.	8
	c)	Explain - Minimum turning radius of aircraft with neat sketch.	8
5.		Attempt any two	
	a)	Explain the terms - Runway capacity - Gate capacity	8
	b)	Explain the various geometric standards for taxiway.	8
	c)	What is wind rose diagram? What is its utility? State the types of it & explain ar type.	ny one 8
6.		Attempt any two.	
	a)	Explain optimum location of exit taxiway.	8
	b)	Explain in brief special characteristics of airport drainage.	8
	c)	State the factors on which size of apron depends? Explain with neat sketch "Airc parking system".	craft 8

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