GUJARAT TECHNOLOGICAL UNIVERSITY

		BE - SEMESTER-VII EXAMINATION – SUMMER	
U			Date:08-05-2025
Time:(Instruction 1	02:3 ions: l. A 2. M 3. F	ame:Port and Harbour Engineering O PM TO 05:00 PM Ittempt all questions. Iake suitable assumptions wherever necessary. Igures to the right indicate full marks. Imple and non-programmable scientific calculators are allowed	Total Marks:70
Q.1	(a) (b)	Give classification of harbors. Mention factors considered for selection of location of a harbor.	07 07
Q.2	(a) (b)	State requirements for a harbor. Mention facilities of a good port.	. 07
	(b)	OR Explain ANY FIVE characteristics of a ship with sketches.	07
Q.3	(a) (b)	Explain Lunar day. Explain the causes of tides. Explain Spring tide, Neap tide and Mean Sea Level with sketch. OR	07 07
Q.3	(a) (b)	Explain wind rose, its construction and its use. Draw neat titled sketches of different types of breakwaters.	07 07
Q.4	(a) (b)	Draw a neat titled sketch showing harbor layout with various comp Discuss factors affecting size of a harbor. OR	ponents. 07 07
Q.4	(a) (b)	Discuss factors affecting size of turning basin. Discuss factors affecting width of harbor entrance.	07 07
Q.5	(a) (b)	Explain working of dry dock having lock gates with a sketch. Write short note on floating dock with a sketch. OR	. 07 07
Q.5	(a) (b)	State uses of light house, buoys, bollard and dolphin.	07 07
