GUJARAT TECHNOLOGICAL UNIVERSITY ME - SEMESTER- IV • EXAMINATION - SUMMER 2015

Subject Code: 7443	Date: 01/05/2015	
Subject Name: Off Time: 2:30 pm to 5:00 Instructions:	pm Total Marks: 70	
	questions. ble assumptions wherever necessary. ne right indicate full marks.	
Q.1	(a) Define wave load and concept of analysis used for it.	07
0.4	(b) Explain about current load on the structure.	07
Q.2	(a) What is meant by "maximum wave force on an offshore structure"?	97 07
	(b) Briefly explain joint loads from wave forces. OR	V
	(b) Explain effect of wave forces on inclined piles.	07
william Q.3	Explains the steps for installing the pile as a foundation of offshore structure.	
	OR	
Q.3	"Dynamic Model" explain this term in connection of offshore structure?	14
Q.4	Explain analytical modeling of offshore structure. OR	14
Q.4	Explain about different types of piles used in the foundation of offshore structure.	14
Q.5	(a) What types of loads and load combination is used for foundation design of offshore structure?	07

Q.5 (a) What is "Preliminary member sizing"?(b) Enlist and explain installation methods of pipeline.

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