

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Programme Name: M. Tech (PLE)	Semester : III
Course Name : Equipment & machinery Maintenance	Time : 03 hours
Course Code : MECH 7003	Max. Marks : 100
Nos. of page(s) : 2	

Instructions:

SECTION A

S. No:-		Marks	CO
Q 1	Indicate 10 instruments setting of prime mover in pump station.	4	CO 1
Q 2	Explain the various modes for communication of data & voice in cross-country pipelines	4	CO 3
Q 3	Use of fire proximity & fire entry suit in industry. Illustrate with drawing fire clock and purpose for providing it.	4	CO 4
Q 4	Effects of electric shock on human beings. State four stages of the effect of a current flow through the body.	4	CO 4
Q 5	Replacement of annular plates of storage tanks.	4	CO 2
SECTION B			
Q 6	What are the various types of Single Point Mooring systems? Mention various navigation facilities used in submarine system.	10	CO 6
Q 7	Elaborate various types of instruments used for enhancing the safety of equipment's. Why ESD system is provided in logic? Mention the safety settings for engine lube oil for turbocharged engine.	10	CO 1
Q 8	Write down the chemistry of fire and theory for extinguishing of petroleum fire. Elaborate on methods used for extinguishing petroleum fire. Explain terms BLEVE and boil over occurring during tank fire. What are the goals of loss control management?	10	CO 5

