Name:					
<b>Enrolment</b>	No: UPES				
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES					
Online End Semester Examination, Dec. 2020					
Programme Name:   M. Tech Pipeline Engineering   Semest			III		
			03 hrs		
Course Code : MECH7003 Max. Ma			100		
Nos. of pag					
Instructions: Attempt all questions					
	SECTION A				
1. Eac	h question carries 5 marks.				
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S. No.			СО		
	ame the five maintenance types,,,,,,,,		CO		
Q1. IN	,,,,,,		CO1		
Q2. Li	st five fire fighting equipments,,,,,,,		CO4		
Q3. M	ultiple choice questions. Select the correct answer				
Q3.	uniple choice questions. Select the context answer				
	1. The maintenance activity consists of the following action(s)				
	a) Repair of the component				
	b) Replace of the component				
	c) Service of the component				
	d) All of the above	4h a			
	2. Scheduled maintenance is between breakdown maintenance and preventive maintenance	the			
	a) Bridge				
	b) Join		<b>GO 1</b>		
	c) In		CO1		
	d) Compromise				
	3. History card of the equipment contains following record				
	a) The rate at which different components wear off				
	b) The way equipment behaves				
	c) Total down time of the equipment				
	<ul> <li>d) All of the above</li> <li>4 The objective of Total productive maintenance is/are</li> </ul>				
	<ul><li>4. The objective of Total productive maintenance is/are</li><li>a) Increase in productivity</li></ul>				
	b) Zero down time				
	c) Less idle time				

	d) None of the above		
	5. A systematic approach for maintenance is		
	a) Problem– Diagnosis – Cause – Rectification		
	b) Problem– Diagnosis – Measure – Rectification		
	c) Problem – Cause – Diagnosis – Rectification		
	d) Problem – Measure – Diagnosis – Rectification		
Q4.	Enlist different types of the storage tanks used for petroleum products.	CO2	
Q5.	Write the five failure analysis or defect analysis approaches.	CO2	
Q6.	What are the basic functions of the maintenance?	C01	
SECTION B			
1.	All questions will carry 10 marks		
2.	Write short answer		
Q1.	Describe the transformer and its maintenance procedure.	CO4	
Q2.	Explain the tank farm. Write the maintenance activity for the floating roof storage	CO2	
	tanks.		
Q3.	Elaborate maintenance procedure of the gate valve and globe valve used in the	CO3	
	petroleum pipeline.		
Q4.	Describe the cooling system of the A.C. motor.	CO4	
Q5.	Explain the maintenance of the bourdon tube pressure gauge.	CO3	
	SECTION C		
	1. Each Question carries 20 Marks.		
	2. Instruction: Write long answer.		
Q1.	Describe single point mooring. Write the methods for maintenance of the single		
	point mooring.		
	OR	CO5	
	Elaborate maintenance activity of the submarine pipeline.		