

Name:	 UPES <small>UNIVERSITY WITH A PURPOSE</small>
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Online End Semester Examination, December 2020

Course: : Defect Assessment & Maintenance in Pipelines – II

Semester: III

Program: M. Tech Pipeline Engineering

Time 03 hrs.

Course Code: CHPL 8001

Max. Marks: 100

SECTION - A

Answer all the Questions

6 X 5 =30 M

Q 1	Describe measurement techniques of internal corrosion.	CO2
Q2	Classify metal loss defects.	CO1
Q3	Describe operational parameters required for producing sour & sour corrosion	CO3
Q4	To inferring, the health of the pipeline discuss the role of intelligent pigs.	CO1
Q5	List out causes of washouts, in which conditions washouts may lead to intermediate repair.	CO2
Q6	Describe Pilferage Revelations,	CO3

SECTION - B

Answer all the Questions

5X 10 =50 M

Q 7	Designate the types of mainline crossings and its inspection	CO1
Q 8	Explain effect of encroachments and right of way monitoring system for encroachments.	CO4
Q 9	Enlighten essential components to maximize the effectiveness of Right Of Way Monitoring system of encroachments.	CO2
Q 10	Discuss the approach and analysis steps of important leads to curb/control pilferage incidents and consequences of Pilferage	CO3
Q 11	Compare Pipeline Coatings of CTE, 3 LPE, 3 LPP and FBE with different factors. OR Illuminate principle of intelligent pigging operation and factors influencing the tool performance with safety precautions.	CO4

SECTION- C

Answer the below Question

1X20 = 20 M

Q12	Explain pipeline repair and rehabilitation strategy of planning with flow chart. OR Illuminate specifications of composite reinforcement sleeves with advantages and limitations.	CO5
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