
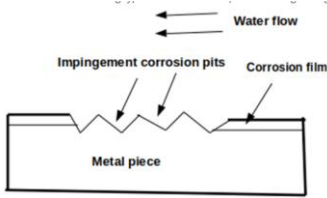


Name:			
Enrolment No:			
<b>UPES</b> <b>End Semester Examination, December 2023</b>			
<b>Course: Corrosion Engineering</b> <b>Program: B. Tech APE Gas</b> <b>Course Code: CHCE 3025P</b>		<b>Semester: VII</b> <b>Time : 03 hrs.</b> <b>Max. Marks: 100</b>	
<b>Instructions: Attempt All</b>			
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q 1	Name the type of corrosion that will occur on a piece of iron covered with dust?	4	CO1
Q2	Determine the method to prevent galvanic corrosion?	4	CO2
Q3	Discuss is piece of steel covered with ice undergo corrosion?	4	CO3
Q 4	Identify the type of corrosion depicted in the figure below. 	4	CO2
Q5	List two conditions for electrochemical corrosion to occur.	4	CO3
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q 6	Describe the corrosion inhibitors? Classify different types of inhibitors with examples.	10	CO4
Q7	Illustrate how deposition of impurities on a metallic surface lead to corrosion?	10	CO4
Q 8	Select which one of the following contributes most to corrosion damage and why? a) Rainfall, b) Humidity, c) Proximity to sea, d) Dust storms	10	CO3
Q9	Defend how could incomplete drainage contribute to the corrosion of liquid containers. Discuss why is complete drainage necessary?	10	CO5
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			

Q 10	Relate different methods to reduce erosion corrosion effect in pipes.	<b>20</b>	<b>CO5</b>
Q 11	Determine how alteration of environment provides a versatile means for reducing corrosion. Explain in detail with the help of examples.	<b>20</b>	<b>CO4</b>