Paper / Subject Code: 41954 / Elective - III Corrosion Engineering (E.S)

22-Nov-2019

1T00527 - B.E.(Chemical Engineering)(SEM-VII)(Choice Base) / 41954 - Elective - III Corrosion Engineering

(E.S) 77305

(Time: 3 Hours)

Total Marks: 80

<u>N.B.</u>

- 1. Question No. 1 is Compulsory.
- 2 Attempt any **Three** Questions from remaining **Five** Questions
- 3. Assume Suitable Data if needed and Justify the Same
- 4. Figures to the right indicate full marks.

Que.1

a)	What is corrosion and write consequences of corrosion [05]	₽,
b)	What is over potential? Explain activation polarization [05]	j
c)	Explain need for corrosion education [05]	F
d)	Explain corrosion in acids [05]	1

Que.2

a)	Why metals are corrode? Explain with reaction	[10]
b)	Explain in detail Nernst Equation	[10]

Que.3

a)	Write a short note on Ohmic drop	[10]
b)	Explain in detail Corrosion Prevention	[10]
	2, 4, 9, 0, 0, 6, 9, 6, 6, 7, 9, 9, 9, 9, 9, 4, 6, 7, 8, 7,	

Que.4

a)	write short note on Anodic processes	[10]
b)	Write functions and roles of corrosion engineer	[10]

a) Explain Factors affecting atmospheric corrosion	[10]
b) Explain examples of corrosion cells	[10]

Que.6 Write short note on

[20]

- 1. Uniform corrosion
- 2. Pitting corrosion
- 3. Galvanic corrosion
- 4. Exfoliation corrosion
