

Marking scheme: Engineering Chemistry (set 2)

JUNE-2018 Reexamination

Paper code - U127-105B(RE-FFFS)

Question number	Sub question number	Marking Scheme
Q.1	a)	6 types with oxidation reactions – 6 marks (1 mark each-1/2 mark identification, 1/2 mark reaction)
	b)	3 marks each (3 points- 3 marks)
	c)	Any four factors with explanation – 4 marks
Q.2	a)	Definition – 1 mark, conditions – 2 marks, oxygen absorption mechanism – 3 marks (reactions at anode and cathode-1 mark, figure – 1 mark, explanation with example- 1 mark)
	b)	any two methods of surface preparation – 2 marks, metal cladding and cementation -2 marks each (figure-1 mark, explanation-1 mark)
	c)	Any four factors with explanation – 4 marks
Q.3	a)	discharging electrode reactions- 2 marks each (2 x 3 = 6)
	b)	four merits- 2 marks, four demerits- 2 marks (1/2 mark each)
	c)	Four points- 4 marks (1 mark each)
Q.4	a)	Defination- 1 mark, working with reactions- 2 marks, figure-1 mark, two advantages-1 mark, two disadvantages-1 mark
	b)	four features – 4 marks (1 mark each)
	c)	discharging electrode reactions -2 marks, two advantages-1 mark, two disadvantages- 1 mark
Q.5)	1	(d) Colourless
	2	(d) All of these
	3	(c) Electrodialysis
	4	(c) Both (a) and (b)
	5	(d) All of these
	6	(b) Blue shift, loss of conjugation
	7	(c) -OH
	8	(b) 2 to 10
	9	(d) 1.1 V
	10	(c) Molar conductance
	11	(a) Ethanol
	12	(a) Aromatics
	13	(a) Exothermic reaction
	14	(d) cal/gm
	15	(a) High, moderate
	16	b) 90%
	17	c) Polyethylene
	18	b) monomer soluble
	19	b) lyotropic
	20	a) number of monomers in polymer chain