SCHEME OF VALUATION

(SCORING INDICATORS) (1)

COURSE CODE:- 1004

REVISION:- 15

COURSE TITLE:- Engineering Chemistry-I

QUESTION NO.	SCORING INDICATOR	SPLIT UP SCORE	SUB TOTAL	TOTAL
I 1	Definition	1	2	2
	classification	1		
2.	Definition	2	2	2
3	Definition	1	2	2
	composition (Pb, Sn)	1		
4.	$CaCl_2$, $CaSO_4$	½, ½	2	2
	$MgCl_2$, $MgSO_4$	½, ½		
5.	Atomic number	1	2	2
	Mass number	1		
II 1.	Normality	1	3	6
	eqn	1		
	substitution	1		
	answer	1		
	Molarity	1	3	
	Equation	1		
	substitution	1		
	answer			

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QUESTION NO.	SCORING INDICATOR	SPLIT UP SCORE	SUB TOTAL	TOTAL
II. 2.	Any Four properties.	1½ × 4	6	6.
3.	Any Four applications	1½ × 4	6	6.
4.	Homogeneous catalyst definition	2		
	Example	1	6	6.
	Heterogeneous catalyst - definition	2		
	Example	1		
5.	Any Four properties	½ × 4	6	6
6	Any Four properties	½ × 4	6	6.
7.	Any ~~Four~~ Four differences	½ × 4	6	6.

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QUESTION NO.	SCORING INDICATOR	SPLIT UP SCORE	SUB TOTAL	TOTAL
	Part C	5	5	
III a.	Any 4 difference	4	4	15
b.	1 mark each	1½ x 4	6	
c.	Any Fous applications	1x4	4	
IV a	Any Fous applications	4x1		
b.	Definition of each	4x½	6	15
	Examples			
c.	Any three method	5	5	
V a	Definition of buffer	2		
	classification — acidic, basic — explanation	3	7	
	Examples acidic	1		
	basic	1		

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COURSE TITLE:-

QUESTION NO.	SCORING INDICATOR	SPLIT UP SCORE	SUB TOTAL	TOTAL
b.	Ionic Product definition	2	4	
	Mathematical Expression	2		15
c.	Name of indicator 1 mark each	4	4	
VI a	Equation $V_1 N_1 = V_2 N_2$	2		
	Substitution	1	5	
	answer	2		
b.	Lowry - Bronsted			
	acid - definition	1		
	example	½	3	15
	base - definition	1		
	example	½		
	Arrhenious theory			
	acid	1		
	example	½	3	
	base	1		
	example	½		

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COURSE TITLE:- Engineering chemistry-I

QUESTION NO.	SCORING INDICATOR	SPLIT UP SCORE	SUB TOTAL	TOTAL
VI c.	Volumetric analysis	1		
	principle	2	4	
	$V_1N_1 = V_2N_2$	1		
VII a	4 steps	1½×4	6.	
b.	Revesse osmosis	3	5	15
	Diagram	2		
c	Each method -2 marks	4	4	
VIII a.	Any Four methods with details	9	9	
b.	reason for permanent hardness	2	6	15
	Ion exchange method	4		

QUESTION NO.	SCORING INDICATOR	SPLIT UP SCORE	SUB TOTAL	TOTAL
IX a	Annealing	½		
	Quenching	½		
	Tempering	½	6	
	Nitriding	½		
				15
b.	Any Four uses	4	4	
c.	Any Four reasons	5	5	
X a	Name of Impurities (3 nos)	2	5	
	effect explanation	3		
b.	Component of bronze	2	4	
	Duraluminn	2		
				15
c	Four steps with sufficient explanation	½ × 4	6.	
	Each step ½ marks			