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S.B.	Roll	No

APPLIED CHEMISTRY-I 1st Exam/2555/Common/May'18

Dur	atio	on: 3Hrs.	M.Marks:75
		SECTION-A	
Q1.	Do	as directed.	10x1.5=15
	a.	The chemical formula of ferric sulphate is	
	b.	A chemical equation in which heat is evolved is called	
	C.	Proton was discovered by	
	d.	There are periods in periodic table.	
		Cations are charged ions.	
	f.	The reaction of an acid with a base to form salt and water is called	
	g.	The functional group of amide is	
		lons are neutrals particles. (T/F)	
	i.	Ethylene is unsaturated in nature. (T/F)	
	j.	Reduction involves the loss of electrons. (T/F)	
		SECTION-B	
Q2.		tempt any ten questions.	10x3=30
		What are the limitations of a chemical equation?	
		Define the terms Electron, Proton and Neutron.	
		Differentiate between an orbit and orbital.	
		Define chemical bond. What is the cause of chemical combination?	
		What are the advantages of long form of periodic table?	
		Differentiate between temporary and permanent hardness of water.	
		Explain scale and sludge formation.	
		State and explain Boyle's law.	
		What are electrolytes and non electrolytes?	
		How will you define indicator, titration and end point?	
		Explain Faraday's second law of electrolysis.	
		What are primary and secondary cell?	
Х	iii.	What is the functional group of (a) Alcohols (b) Amide (c) Ketone?	♦
		SECTION-C	
Att	emp	ot any three questions.	3x10=30
Q3.	a) (Give main features of Bohr's atomic model.	5
	b) E	Balance the following equation by hit and trial method.	5
		Fe + H2O \longrightarrow Fe ₃ O ₄ + H \longrightarrow	
Q4.	a) S	State and explain Heisenberg's uncertainty principle and Aufbau Principle.	5
	b) [Name the four quantum numbers and explain the significance of each qua	ntum numbers. 5
Q5.	a) \	What are the various factors affecting the degree of ionization?	5
	•	what is a buffer solution? Explain the types of buffer solution	5
Q6.	•	How will you remove hardness of water by permutit process?	5
	b) I	Differentiate between reversible and irreversible reactions.	3
		Explain the term catenation.	2
Q7.		Differentiate between alkene and alkyne.	5
		What is the purpose of electroplating?	3
	c) E	Explain the concept of redox reaction.	2