No. of Printed Pages : 4					j)	What is the ph of water.
Roll No			121912		k)	Give an example of weak acid?
1st Sem. / DMLT				l)	Loss of electron is known as	
Subject : Basic Chemistry					Oxidation/Reduction	
Time : 3 Hrs. M.M. : 100			M.M. : 100		m)	Give one example of strong electrolyte.
					n)	What is the definition of emulsion.
SECTION-A Note: Very Short Answer type questions. Attempt any					o)	What type of reaction taking place on anode.
	15 parts. (15x2=30)		(15x2=30)		p)	Write an example of colloidal solution.
Q.1	a)	Write the S.I. unit of pressure.			q)	What is the ionic product of water.
	b)	What is the atomic ma	ass of sodium.		r)	What is the particle size of true solution.
	c)	Write the definition of molarity.				SECTION-B
	d)	What type of charge is there on an neutron.		Note: Short answer type questions. Attempt any ten		
	e)	Draw the shape of p orbitals.			par	
	f)	How many groups a	re present in modern	Q.2	i)	Differentiate between molarity and molality.
	,	periodic law?			ii)	Calculate the no. of moles in 48 gm of O_2 . (mole. wt. of O_2 is 16)
	g)	What is the reason of permanent hardness				
		of water.			iii)	What is valence bond theory.
	h)	Water don't form lather with soap.			iv)	Differentiate between hard and soft water.
	i)	What are the qualities of good drinking water?			v)	What are the methods of purification of water for drinking purposes.
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- vi) What is Equilibrium constant and explain its characteristics?
- vii) Differentiate between strong acids and weal acid with examples.
- viii) What are buffer solution acid write its applications
- ix) What is Neutralization? Explain it with example.
- x) What are redox reactions? Explain it.
- xi) What are Electrolytes? Give example of strong electrolytes and weak electrolytes.
- xii) Define oxidation and reduction with respect to electronic concept.
- xiii) What is collodial solution. Give the types of colloids.
- xiv) Write a short note on adsorption. What are the applications of adsorption.
- xv) Write the shape of different S and P orbitals.

SECTION-C

Note:Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 (a) Explain the terms
 - (i) Matter
- (ii) Atomic mass
- (iii) Compound
- (iv) Mixtures
- (v) Molar mass
- (b) What is morality. Explain it with example.
- Q.4 (a) Explain the ionic bond & covalent bond with example
 - (b) Write the Valence bond theory.
- Q.5 Explain the process of Electrolysis and write its application.
- Q.6 What is acid base titration. Write its application and the factors on which choice of indicators for acid base titration depends
- Q.7 (a) What are the qualities of good drinking water.
 - (b) Write disadvantages of hard water in domestic uses.

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