Visit www.brpaper.com for downloading previous years question papers of B-tech, Diploma, BBA, BCA, MBA, MCA, Bsc-IT, M-Tech, PGDCA, B-com

APPLIED CHEMISTRY-I 1st Exam/2555/0451/5404/Common/Nov'17

Durati	on: 3Hrs.	M.Marks:75
	SECTION-A	
Q1. Fil	I in the blanks.	8x1=8
i. Th	ne combing capacity of an element is called its	
	orizontal rows in periodic table are called	
iii. N	egatively charged ions are called	
	olume of 1 mole of a substance is called	
v. M	1 shell has sub-shells.	
vi. H	ard water is not used in boilers for raising steam because is formsand	
	ny substance which has a tendency o donate a proton is called	
Q2. Ch	noose the correct answer.	7x1=7
i) Iso	otopes of the same elements have	
	(a) Same no. of neutrons (b) same atomic mass	
	(c) Different chemical properties (d) same no. of protons	
ii) Ca	arbon in ethylene involves the hybridization	
	(a) Sp3 (b) sp2 (c) sp (d) dsp2	
iii) O	oxidation no. of Mn in kMno4 is	
	(a) $+1$ (b) $+7$ (c) $+5$ (d) $+3$	
iv) T	he general formula of aldehyde is	
	(a) RCOOR` (b) ROR` (c) RCHO (d) RCOOH)	
v) Oı	n diluting of buffer solution, its pH	
	(a) Increasing (b) decreasing (c) remain same	
	(d) may increase or decreasing depending on the type of buffer	
vi) A	n oxidizing agents is a substance which can	
	(a) Lose electrons (b) gain electrons (c) undergo increasing in oxid	ation number
	(d) Take part in the reaction as non-metal elements.)
vii) T	The tetravalency of carbon is shown by the electronic configuration-	
	(a) 1s2, 2s2, 2p2, (b) is2, 2s2, 2px1, 2py1 (c) 1s2, 2s2, 2px2, 2py0	
	(d)1s2,2s2,2px2,2y0 (e) 1s2,2s1,2px1,2py1,2pz1	
	SECTION-B	
Q3. At	tempt any ten questions.	10x3=30
a.	Write the dimensional formula of velocity, pressure and work.	
b.	Define the terms wavelength, wave number and frequency.	
C.	What are magic numbers?	
d.	Give the comparison of covalent and metallic bond.	
e.	Why hardness is expressed in term of calcium carbonate equivalent?	
f.	Write in brief about potable water.	
g.	Explain isothermal and adiabatic process.	
h.	State the first law of thermodynamics.	
i.	How will you define indicator, titration, and endpoint?	
j.	Explain electrolytes and non- electrolytes.	
k.	Give the difference between direct and in-direct redox reactions.	
I.	Explain (i) Position isomerism (ii) functional isomerism, giving one example of	each.