H. S. C. CHEMISTRY - PAPER II Date 8/3/2010

Time: 2 Hrs.) Question Paper: March 2010 (Max. Marks: 40

Note: Please See to Question Paper March 2008.

Q. I. Select and write the most appropriate answer from the given alternatives for each subquestion.WWW.UNIVERSITYQUESTIONPAPERS.COM (8)

(i) The f-block elements belonging to the 5 f series are all

(a) Radioactive

(b) Non-radioactive

(c) Metalloid

(d) Inert

(ii) Molecular formula of chloropicrin is

(a) C₆H₆NC

(b) (CH₂)₈ N₄

(c) CCI,NO,

(d) COCI,

(iii) Primary alcohols are prepared by catalytic hydrogenation of aldehydes in presence of as a catalyst.

(a) Aluminium bromide (b) Fluoboric acid

(c) Dry ether

(d) Palladium

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(iv) In urotropine, the number of C-C sing	gle bonds is	and the second of a	
(a) 9 (b) 6	(c) 4	(d) 0	
(v) Which of the following compounds de		etic acid on oxidation?	
(a) Ethanol (b) Propan - 1 - 01	(c) Propan - 2	- o1 (d) 2 methylpropan-2	2-01
(vi) A secondary alkyl halide is heated w	ith excess of am	monia, the major product of	b
tained is	exaller o	TELEVANO SE UMPA (S)	
	(b) Secondary	amine	
(a) Primary amine (c) Tertiary amine UNIVERSITYQU	- Sd) Quarternar	v ammonium salt	
(vii) The carbon atoms of glucose molec	ule which take D	art in osazone formation are	
	(c) C, and C	(d) C, and C,	
	(0) 03 4 04	A Service Control of the Control	
(viii) Diethyl ether is a metamer of	(b) 1-ethoxy p	ropane	
(a) methoxy methane	(d) Butan - 2 -	1.7	
(c) 1-methoxy propane	(d) Datail 2		(4)
Q. 2. (A) Attempt any ONE :	(a) Dry ice	(b) Methyl cyanide	
(i) How is acetic acid prepared from -		(b) Monty oyamaa	
(ii) Explain why are amines basic in nature.		the same of the sa	(2)
(B) Attempt any ONE :	erro I I anno in Abril		\ - /
(i) Explain Homolytic fission.	(II) How is Ny	lon - 66 prepared?	(2)
(C) Answer the following.			(2)
(i) How is phenol prepared from -	(a) Aniline	(b) Chlorobenzene	
(ii) What is the action of the following reage	ents on ethanal?		
(a) Fehling's solution (b) Tollen's reagent			
Q. 3. (A) Attempt any ONE.			(3)
(i) Define optical activity. Discuss the optical	al activity of Lactic	acid.	
(ii) How are simple ethers and mixed ether	s prepared by Wi	lliamson's Synthesis?	
How is pinacol obtained from acetone?			
(R) Attempt any ONE.			(3)
(i) What is the action of sulphuric acid at di	fferent temperatur	es and different concentrations	s or
the following compounds?			
(a) Ethanol (b) Propan - 2 - 01	(c) 2 - methyl	propan - 2 - ol	
(ii) What are conjugated proteins? How is	peptide linkage fo	rmed in proteins?	
(C) Answer the following:			(2)
What is the action of ethyl magnesium iod	ide on ethyl metha	anoate, in equimolar quantities	s?
Q. 4. (A) Answer the following :			(4)
With the help of Energy Profile Diagram, ex	olain the mechan	ism of alkaline hydrolysis of ter	tian
butyl bromide.	THE WASTERN OF	The man of the same of the same	(4)
(B) Attempt any ONE. (i) Write the general outer electronic config	uration of lanthan	ides and actinides. Give the di	
(i) Write the general outer electronic coming	juration of lantinari	ildoo diid damiildan	
ences between lanthanides and actinides.	(b) Aspirin		100
(ii) Write the uses of : (a) Terylene	(b) Aspiriti	athode for the preservation of f	food
What are food preservatives? Mention any	two chemical mi	ethous for the preservation or .	(4
Q. 5. (A) Attempt any ONE.			,-
(i) How is chloroform prepared from ethan	iol?	O CONTRACTOR OF THE PARTY OF TH	
(ii) Explain Aldol condensation.			
(B) Attempt any TWO:	4	transport of the Section of the Sect	(4
(b) Attempt any inte	- 1 The second s		
(i) What are Phenols? How will you disting	guish between eth	nanol and phenol?	
(i) What are Phenols? How will you disting (ii) How is ethanamine prepared by using	guish between eth (a) Acetaldo	nanol and phenol? xime (b) Nitroethane	