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1219 V	Varning:- Please writ	e your Roll No. in the sp	ace provided and sign.	Roll No-
(Inter Part – II)	(Session 2015-17 to	2017-19) Sig.	of Student
	ry (Objective)	(Group - I)	Paper II	
	owed:- 20 minutes	PAPER CO	DE 4485 Ma	aximum Marks:- 17
Note:-)	ou have four choices	s for each objective type	question as A, B, C an	d D. The choice which you
Cutting of	correct; fill that circle	e in front of that question	on number. Use mark	er or pen to fill the circles.
which is	nrinted on this or	e circles will result in z	ero mark in that quest	ion. Write PAPER CODE, wer Sheet and fill bubbles
according	ely, otherwise the str	ident will be responsible	e for the situation He	e of Ink Remover or white
correcting	g fluid is not allowed.	The responsion		. I
1. W	hich is not a calcario	us material?	,	
	A) Clay	(B) Lime	(C) Marble	(D) Marine Shell
2. T	he main pollutant of l	eather tanneries in the wa		salt of?
	() Lead	(B) Chromium (VI)	(C) Copper	(D) Chromium (III)
	MnO	xide in the following?	(0)	
		(B) Mn ₂ O ₃	(C) MnO_{γ}	(D) Mn_2O_7
	eneral name of miner		. (0) 0 1 1	
	 A) Gypsom B) Gypsom	(B) Dolomite	(C) Calcite	(D) Epsom salt
	.) Pb_2O	(B) SiO,	(C) PbO	(D) Ph ()
		nergy is possessed by?	(0) 100	(D) Pb ₃ O ₄
) P	(B) N	(C) Sb	(D) An
		oxidizing agent in the fol	lowing?	(D) As
) I ₂	(B) Cl ₂	(C) F ₂	(D) Br_2
8. W	hich one of these elen	nents is a typical transition		
(A) Ni	(B) Zn	(C) Cd	(D) Hg
9. Nu	umber of possible cha	in isomers of an alkane	C, H ₁₂ are?	
(A)) 2	(B) 3	(C) 4	(D) 5
	uctural formula of vis	-		
(A)	$) HC \equiv C - Cl$	(B) $H_2C = CHCl$	(C) $H_3C - CHCl_2$	(D) $H_2 C - C H_2$
				d d
11. W	hich one of the follow	ing species is an electron	a withdrawina?	
(A)	$-CH_3$		(C) – OH	(D) - NH,
				d hydrolysis, the product
fo	rmed is?		ricito, followed by aci	a nyarorysis, me product
	Ethanol	(B) 1-propanol	(C) 2-propanol	(D) Ethanoic acid
13. Wh	nich compound will h	ave maximum repulsion	with water?	(-)
	H_5C_2OH	(B) H ₃ COH	(C) C ₆ H ₆	(D) $H_3C-O-CH_3$
14. Wh	ich one of the follow	ing compounds will reac	t with Fehling's solution	n?
(A)	НСООН	(B) H ₃ C · CHO	(C) H ₃ CCOOH	(D) $H_1C - COCH_3$
	emical formula of gly	cine is?		
Commence of the Commence of th	H ₃ CCOOH	(B) $H_3C \cdot CHO$	(C) $H_2N \cdot CH_2COOH$	(D) H ₃ C · CO · CH ₃
		is not present in RNA?		Y507 (201) (200)
	Thiamine	(B) Cytosine	(C) Adenine	(D) Uracil
		is a synthetic polymer?	(C) C-11 1	(D) D I
(A)		(B) Starch	(C) Cellulose	(D) Polyester
	1	279 1219	13000 (3)	
		-		
		SGID-PI	10 .	
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	Warning:- Please do	not write anythin	g on this	question paper except your Roll No.			
1219	(Inter Part-II)	11.00	0.7 5.255	(Session 2015-17 to 2017-19)			
C	Themistry (Subjective) ime Allowed: 2,40 hours	Group - I		Paper II Maximum Marks: 68			
		SECTION					
2. (i)	Answer briefly any EIGH Write two properties of covale	nt hydrides	(ii)	Define Lanthanides and Actinides.			
iii)				$O_3 + heat \Rightarrow$ (b) $NaNO_3 + heat \Rightarrow$			
(iv)	Justify that CO2 is acidic in na		(v)	How Borax is used as water softening agent.			
(vi)	How H_3BO_3 reacts with (a) C_2H_3		(vii)	What is aqua regia. How is it dissolves the gold.			
viii)	Write chemical Equations show temperature on H ₃ PO ₄	wing effect of	(ix)	How temperature affects the gaseous Nitrogen di-oxide (NO_2)			
(x)	Why NH, NO, is not used as fer	tilizer for paddy rice	(xi)	What do you mean by setting of cement.			
xii) 3.	What is Biochemical oxyge: Answer briefly any EIGHT	n demond (BOD parts from the) following	8×2=16			
(i)	Write down the useful by-pro in the process of cracking,	ducts obtained	(ii)	What is Clemmensen reduction? Give an example.			
(iii)	Why alkanes are less reactive	than alkenes?	(iv)	Write down the structural formulas of (a)Naphthalene (b)Phenanthrene			
(v)	Write down five resonance st benzene.	Write down five resonance structures of benzene.		Give IUPAC names of the following compounds. (a) $(CH_3)_3 C - CH_2 - Cl$ (b) $(CH_3)_2 CHBr$			
(vii)	What are Grignard's reagents. How a	Vhat are Grignard's reagents. How are these produced?		How Phenol is prepared by Dow's process?			
(ix)	How Phenol reacts with form	How Phenol reacts with formaldehyde?		Write down the formulas of (a) Palmitic acid (b) Iso-Butyric acid			
(xi)		How can you convert acetic acid into (a) Methane (b) Acetyl chloride		Write down the mechanism for the reaction between CH_3COOH and NH_1			
4.	Answer briefly any SIX pa	Answer briefly any SIX parts from the followings:- 6×2=12					
i)		Complete and balance following equations. (a) $HClO_4 + P_2O_5 \xrightarrow{-10 \text{ °C}}$ (b) $HgO + Br_2 \xrightarrow{50 \text{ °C}}$					
(ii)	Write order of acid strength of oxyacids of chlorine.		(iii)	What happens when bleaching powder reacts with (a) conc.H ₂ SO ₄ (b) NH ₃			
(iv)	Give systematic names to follow (a) $K_2[PtCl_6]$ (b) $[Co(NH_3)]$		(v)	Write industrial method for the preparation of formaldehyde.			
(vi)	What is Cannizzaro's reaction?		(vii)	Define thermoplastic and thermosetting polymers.			
(viii)	What are polyester resins? G with reaction equation.	ive an example	(ix)	What is meant by denaturing of proteins.			
		SECTIO					
	e: Attempt any three questi (a) How does the classificat	ons from the fo	llowing. in differe	$(8 \times 3 = 24)$ ent blocks help in understanding their chemistry			
	(b) How is sodium metal e	xtracted by Dov	vn's cell	? Describe the products formed by this cell on			
	different electrodes by b	alanced chemica	al equation	on.			
6.	(a) Explain the electrochem	ical theory for c	orrosion				

(b) What is smog? Explain the pollutants which are the main causes of photochemical smog.

- 7. (a) Define Isomerism and explain any two types of structural isomerism with examples.
 - (b) Discuss the stability of benzene in detail with reference to 1,3,5 cyclohexatriene.
- 8. (a) Explain the polymerization of acetylene in detail.
 - (b) Describe the preparation of ethyl alcohol by fermentation of starch and molasses.
- 9. (a) How does acetaldehyde react with (i) C_2H_5MgBr (ii) $NaHSO_3$ (iii) NH_2OH (iv) N_2H_4
 - (b) Write a detailed note on $S_N 2$ reactions of alkyl halides.

SGD-12-G1-19