590-91-12-18

Warning:- Please, do not write anything on this question paper except your Roll No. (Session 2015-17 & 2016-18) 1218 (Inter Part-II) Paper (II) Group - I Chemistry (Subjective) Maximum Marks: 68 Time Allowed: 2.40 hours **SECTION -**Answer briefly any EIGHT parts from the followings:- 8×2=16 2. Diamond is bad conductor while graphite is a good ZnO is amphoteric in nature. Justify. (ii) (i) conductor why? Write formulae of the following ores.(i) Talc (ii) Zircon How is lime mortar prepared? (iv) Give chemistry of Borax-bead Test. (iii) (vi) Write two uses of Aluminium. What is aqua Regia? How does it dissolves gold? (v) (viii) P2O5 is a powerful dehydrating agent. (vii) Show with two examples. What is Biochemical Oxygen demand? What are heterocyclic compounds? (x) (ix) Give two examples. (xii) How does H_2SO_4 react with (i) Zn (ii) Cu What is Biosphere? (xi) Answer briefly any EIGHT parts from the followings:-What do you mean by the term Galvanizing. 3. Name different forms of Iron and mention (iii) (i) which is the purest form. Convert ethene to (a) Halohydrin (b) Ethylene oxide Define functional group and write two oxygen (îv) (iii) containing functional groups. Write two possible structures of C_4H_9Cl . Why alkene is more reactive than benzene? (vi) (v) How methanol and ethanol can be distinguished; What is Dow's method for the preparation of (viii) (vii) give a suitable test for this. phenol. Write any four uses of formaldehyde. Describe Tollen's test for the identification of (x) (ix) aldehydes. Differentiate between acidic amino acids and How acetamide is formed from acetic acid. (xii) (ix) basic amino acids. Answer briefly any SIX parts from the followings:- $6 \times 2 = 12$ What is the chemical nature of Enzymes? 4. What is glycogen? Give its properties. (ii) Why neutral sulphite semichemical process is (i) What do you mean by rancidity of fats and (iv) (iii) mostly used in paper industry. oils? What are fertilizers? Why are they needed. (vi) Explain NH3 as nitrogenous fertilizer. (v) Why Hydrogen fluoride cannot be stored in glass Why the oxyacids of chlorine are stronger (viii) (vii) containers? than oxyacids of bromine? Complete the following reactions. (a) $CaOCl_2 + H_2SO_4 \longrightarrow ?$ (b) $CaOCl_2 + 2HCl \longrightarrow ?$ (ix) ____ II SECTION $(8 \times 3 = 24)$ Note: Attempt any three questions from the following. 5. (a) Why hydrogen cannot be placed above alkali metals and halogens? Discuss the functions of calcium in plant growth? (b) Describe the Bessemer's process for the manufacture of steel. What do you know about water pollution? How is water polluted by industrial effluents? 6. (a) **(b)** What is cracking? Explain its three types. 7. (a) Define sulphonation of benzene. Write its mechanism. Write down four methods of preparation of Alkane. Two from alkyl halides and two from (b) 8. (a) carbonyl compounds i.e. (aldehyde and ketone) (b) How will you convert? (i) Methanol into ethanol (ii) Acetone into ethyl alcohol. Explain $S_N 2$ mechanism in detail write 8(eight) points. (b) Describe Mechanism for (i) Cannizzaro's reaction (ii) Aldehyde with $NH_2 - OH$

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Chemistry (Objective)	Group	S SERVICE AND	F. AV MATRIAN 10 Gr. 1207						
Fime Allowed: - 20 minutes	PAPER CO	JDE 4488 Ma	ximum Marks:- 17						
Note:- You have four choices for each at circle in front of that question result in zero mark in that question. Answer Sheet and fill bubbles accorwhite correcting fluid is not allowed. Which Enzyme is not involute.	number. Use marker or per Write PAPER CODE, whe dingly, otherwise the stude	ich is printed on this question will be responsible for the Q.1	n paper, on the both sides of the situation. Use of lnk Remover or						
(A) Diastase	(B) Zymase	(C) Urease	(D) Maltase						
Formaline is a solution of .	formaldehyde in	water							
(A) 10 %	(B) 20 %	(C) 40 %	(D) 60 %						
3) The solution of which acid is used for seasoning of food?									
(A) Formic acid	(B) Acetic acid	(C) Benzoic acid	(D) Butanoic acid						
4) Which one of the followin(A) Urease5) Peroxyacetylnitrate (PAN)	(B) Maltase	(C) Zymase	(D) Lipase						
(A) Eves	(B) Ears	(C) Nose	(D) Stomach						
6) The main pollutant of leat (A) Lead	(B) Chromium (vi)	(C) Copper	(D) Chromium (iii)						
7) For which crop, Ammonia (A) Cotton	m nitrate fertilizer is to (B) Wheat	ot used? (C) Sugarcane	(D) Paddy rice						
8) Zinc oxide is		2007 (2008 1200)							
(A) Acidic	(B) Basic	(C) Neutral	(D) Amphoteric						
9) Which one of the following	ng does not belong to a	Ikaline Earth metals?	(D) Dn						
(A) Be	(B) Ra	(C) Ba	(D) Rn						
10) Which element forms an i	(B) Aluminium	(C) Carbon	(D) Silicon						
11) Laughing gas is chemical									
(A) NO	(B) N_2O	(C) <i>NO</i> ₂	(D) N_2O_4						
12) Hydrogen bond is the stro	ongest b/w the molecul	es of							
(A) HF	(B) HGi	(C) HBr	(D) HI						
13) Which of the following is	s a typical transition m	etal?	(D) Co						
(A) Sc	(B) Y	(C) Ra	(D) CO						
14) Linear shape is associated		(C) sp	(D) dsp^2						
(A) sp3	(B) sp^2	(0) 1	(=) usp						
15) Formula of chloroform is (A) CH_3Cl	(B) $CHCl_3$	(C) <i>CH</i> ₂ <i>Cl</i> ₂	(D) CCl ₄						
(A) Toluene	(B) Benzene	(C) Nitrobenzene	onated is (D) Chlorobenzene						
17) Which one of the follows (A) H_2O	(B) BF_3	(C) H_2S	(D) NH_3						
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(a)3/p	SGI	0-92-12-	12						

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		(Inter Part - II)		2015-17 & 2016		*			
		istry (Subjective)	Grou	ıp (II)	Paper (l				
Ti	me	Allowed: 2,40 hours	G		Maximu	m Marks: 68			
•	1	balana Kilala		. c. 11		0 . 2 . 17			
2.		nswer briefly any Eight pa	and the second s	41,		$8 \times 2 = 16$			
(i)	902-02	hy size of an anion is alway		•					
(ii)		lydration energy decreases low Gypsum can be conver	255	10,000	om, wny?	*			
(iii)		Vrite reactions for (a) Boar			ALO is booted w	ith NoOU polytion			
(iv)					412O3 is neated w	im NaOri solution.			
(v)		hat is sodium silicate; how				na ann ann a			
(vi)		Vrite chemical formulae for							
(vii)		Vrite two points to show pe			A SECTION OF A SEC	ibers.			
(viii		P_2O_5 is a powerful dehydration			AND				
(ix)		live the reactions of contact	- 1 <u>- 1</u>						
(x)		Write down any four points of dissimilarities between oxygen and sulphur.							
(xi)	V	Vrite role of chlorofluoro ca	rbons (CFC:	s) in destroying	ozone.				
(xii)		Differentiate between primary and secondary pollutant with examples.							
3.		nswer briefly any Eight p				$8 \times 2 = 16$			
(i)		What is d – d transition? (ii) What is Wurtz – fittig reaction?							
(iii)		Compare cast iron, wrought iron and steel with reference to percentage of carbon?							
(iv)	90	Distinguish ethene from ethyne by a chemical reaction.							
(v)		Define polymerization. How high quality polyethylene is prepared? What is excellent method for the preparation of alkyl iodides? Give an example.							
(vi)		5 VAR 10 10 10 10 10 10 10 10 10 10 10 10 10	11 M 19875 5: 1987			mpie.			
(vii (viii									
(ix)	-	repare each of following co				(b) Acetic Acid			
(x)		Give general mechanism of				(b) Accide Acid.			
(xi)		What are fatty acids? Give a				Give their importance			
4.		nswer briefly any Six par				$6 \times 2 = 12$			
(i)		What is difference between							
(ii)		What are thermoplastic poly							
(iii		What are derived proteins?	Give two exa	mples.					
(iv) 1	Name principal methods for	chemical pu	lping used for pr	oduction of paper	r?			
(v)		Define micro nutrients with	examples?	(vi) What are	the requirements	of a fertilizer?			
(vii) 1	Write down names and form	ulae of four						
(vii	i) (live two uses of bromine.			applications of no	ble gases?			
	- 1			tion	II				
		tempt any three question		4h - :		$(8 \times 3 = 24)$			
5.	(a)	State Mendeleev's periodic l							
6	(b)	Mension the properties of Describe the Bessmer's p	20 8097 10000		8 100	ns own family.			
6.	(a)	Describe the hydrosphere							
7.	(b) (a)	What are homocyclic and	and the second s			feach			
	(b)	Draw the structural formu							
	(0)	(ii) P-nitroaniline (iii) 2-			1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0				
8.	(a)				457				
m.c.	\$ 5 8803	Prepare Alkanes from (i) Cart	·	76 SM		1970 14700 14000 1			
9.	(p)	Write reactions of ethyl mag	71						
7.	(a)				450/	owning compounds.			
		(i) HCHO (ii) CH ₃ CHO	200 200 400 200 200 200 200						
	(b)	Describe with mechanism	aldol conde	nsation. Why do	es tormaldehyde i	not give this reaction?			
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