CI	ass : 12		Register Number	
	FIRST	REVISION E	XAMINATION	2019-20
Time	Allowed : 3.00 Hours]	CHE	MISTRY	Max. Marks
-	i) Answer all the		ART – I	15 x 1 =
1.	The shape of XeOF ₄ is	As an an a star and a	A A A A A A A A A A A A A A A A A A A	
2.	(a) T- Shape The fraction of total vol	(b) Pyramid ume occupied by the	(c) Square planar atoms in a fcc is	(d) Square pyramid
			(c) $\frac{\pi}{4}$	(c) $\frac{\sqrt{3}\pi}{8}$
3.	During electrolysis of m			0.2 mole of chlorine gas usir
	current of 2A is?	(b) 321 66 min	(c) 378 min	(d) 260 min
4.	Aniline + benzoyl chlori	ide NaOH C ₆ H ₅ - Nh	H - COC, H, this rection (b) HVZ reaction	n is known as
	 (a) Friedel - Crafts rea (c) Cannizzaro reaction 		(d) Scotten Baum	nann reaction
5.	The pyrimidine base pr (a) Cytosine & Adinine	esent in DNA is	(b) Cytosine & Gi	uanine
	(c) Cytosine & Thiam	ine	(d) Cytosine & U	
6.	The drug used to induc (a) Paracetamol	e sleep is (b) bithional	(c) equanil	(d)Chloroquine
7.	Match the following	and the second second		
	A) V2O5 B) Ziegler - Natta	i) High density po ii) PAN	nyeunyiene	
al a	C) Peroxide D) Finely divided Fe	iii) NH ₃	. A formation	
al in	A B .	C D		and Missioners of the
	a) iv i b) i ii		Al provide	
	c) ii iii	iv i .		
8.	d) iii iv Number of secondary	alcohol group prese	nt in glycerol is	- Transfer and the
9.	(a) 1 Assertion : 2,2 - dimeth	(b) 2 vi propanoic acid do	(c) 3 bes not give HVZ react	(d) 4 tion.
	Reason : 2,2 - dimethy	I propanoic acid doe	es not have a α - hydro	ogen atom.
	 both assertion an both assertion an 	d reason are true an d reason are ture bu	t reason is not the cor	explanation of assertion. rect explanation of assertion.
		out reason is false. d reason are false.	N. M. S. C. S.	STE CONTRACT
10.	Cupellation is the proc		efining of	
11	(a) Ag The hydbridization of	(b) Pb carbon in C., fullerer	(c) Cu nce is	(d) Fe
	(a) SP^3	(b) SP	(C) SP ²	(d) Partial - SP ² , Partial - S
12.	same conditions woul	d be completed in	A CARLES AND A CARL	% of the same reaction unde
12	(a) 4 min Which one of the follo	(b) 8 min	(c) 16 min	(d) 32 min
	(a) [Zn(NH,),] ²⁺	(b) $[Co(NH_3)_6]^{3+}$	(c) [Ni(H ₂ O) ₆] ²⁺	(d) [Ni(CN) ₄] ²⁻
14.	H ₂ PO ₄ the conjucate	(b) P.O.	(c) H,PO	(d) HPO, 2-
. 15.	(a) PO ₄ ³ . The actinoid element	which show the high	est oxidation state of -	+7 is
	(a) NP, Pu, Am	(b) U,Fm,Th	(c) U,Th, Md PART - II	(d) Es,No, Lr
	Answer any six que		n No. 24is compulse	ory. 6x
17.	How will you identify b What about bleaching	nature of chlorine?		
18.	Why Cr ²⁺ is strongly re	educing while Mn3+ is	s strongly oxidizing? E	xplain. V/12/

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19. What is sacrifying anode protection? 20. Write about optical property of colloids? 21. What happens when I - Phenyl ethanol is treated with acidified KMnO,? 22. Write the structure and use of Urotropine. 23. Define Zwitter ions. 24. For a reaction $x + y + z \rightarrow products$. From the rate law, rate = K [x]^{3/2} [y]^{1/2}. What is the overall order of the reaction. PART-III Answer any six questions and question no. 33 is compulsory. 6x3=18 Write the condition for the following using elingham diagram. Reduction of Magnesia by Aluminium n Is it possible to reduce Fe₂O₃ using Carbon. ii) 26. Explain the structre of Diborane 27. Draw the structure for i) H₂SO₅
 28. Calculate the packing efficiency of simple cube? ii) HNO, ii) H,PO, 29. For the rate expression "Rate = K [A]² [B] [L]^{3/2}", What happens to the rate of the reaction when
 i) [L] increased by 4 times
 ii) [A] & [B] increased by 2 times [A] decreased to half iii) 30. Write the solubility product expression for Hg,Cl,? 31. Write Kolbe's reaction? Explain the meachanism of Aldol condensation reaction. $O \xrightarrow{CH_3CI}_{AnhyAlCI_4} (A) \xrightarrow{HNO_3}_{H_2SO_4} (B) \xrightarrow{Sn/HCI}_{O} (C)$ 33. PART - IV Answer all the questions. 5x5=25 34. (a) (i) Describe the role of the following in the process mentioned (1) cryolite in the extraction of Aluminium (2) silica in the extraction of copper. (ii) Write the consequence of Lanthanide Contraction? OR (b) (i) Derive the relation between step wise formation, constant and overall formation constant. (ii) Out of Lu(OH), and La(OH), which is more basic and why? 35. (a) (i) What is CFSE? (ii) Reduction potentials of metals M_1 , M_2 and iron are $E_{M1}^{\circ} + 2/M_1 = -2.3V$, $E_{M2}^{\circ} + 2/M_2 = 0.2V$ and E^o_{Fet} +2/_{Fet} = -0.44 V. Predict which metal is better for coating the surface of iron OR (b) (i) Mention the types of crystals for the following 1) Anthracene Glucose 3) Brass SiC (ii) Write any three characterization of catalyst. 36. (a) (i) Define Buffer capacity (or) Index? (ii) Write note on (1) Co - ordination isomerism (2) Linkage isomerism. OR (b) (i) What is Auto Catalysis? (ii) Write note on (1)Brownian movement (2) Three uses of colloid 37. (a) (i) Why PKb of Aniline is more than ethylamine. (ii) How will you classify Carbohydrates. OR (b) (i) Write Hoffmann's degradation reaction. (ii) (1) $H_3PO_3 \Delta$ (2) Two uses of Phosphene 38. (a) (i) How ether is prepared from diazomethane? (ii) Write the structure of possible dipeptides obtained from glycine and alanine. (b) (i) What is TFM? How TFM is used? (ii) Write note on (1) Terylene (2) Buna - N V/12/Che/2