r-EDUCATION- Sommittade Value in Net FIRST REVIS	ION TEST	ww.TrbTnpsc.com	
Staff	Dai 4 VII	Rag No	1111
CHE	MISTRY		
P	art-1		Machin da
Time: 3.00 hrs			1501-16
I. Choose the correct answer:	in nature?		
Choose the correct answer:     Which of the following is paramagnetic     NO CONTRACT	c) [Ni(H2O)a]2.	a) (Ni(Of	0412
a) [Zn(NH <sub>3</sub> ) <sub>4</sub> ] <sup>2*</sup> b) [Co(NH <sub>3</sub> ) <sub>6</sub> ] <sup>3*</sup> 2 The magnetic moment of Mn <sup>2*</sup> ion is			•
6) 2 20 46	c) 8.95 BM	d) 3.90 B	М
Which of the following is not correct ab	out Xenon hexaft	luoride?	
a) Xe has an oxidation state of +6			
b) Hybridisation of Xe is sp <sup>3</sup> d <sup>3</sup>			
<ul> <li>c) Shape of XeF<sub>e</sub> is distorted octahedred</li> </ul>	on		
d) On hydrolysis with water vapour, it g	ives X <sub>e</sub> , HF and Y	Q <sub>2</sub>	
Which of the following is not sp2 hybrid	ised?	~ 0	
a) Graphène b) Graphène	c) Fuller, ne	d) dry ice	
The correct statement is			
<ul> <li>Leaching of bauxite using aqueous</li> </ul>			
t) The bilstered appearance of copaci	during the metal	llurgical process i	s due to the
evolution of CO <sub>2</sub>			
Malachite is CaCO, Cu(OH),	<b>.</b> .		
The Hall-Herout process a good to Colouriess ZnO turns ye Carchyneating	s the production of	of Aluminium and	Iron
a) Frenkel delect			
c) Metal deficiency defect	<ul><li>b) Metal excess</li><li>d) Schottky det</li></ul>	forms 1	
The half life period of a radioactive eler	nent is 140 days	After 500 storms	
Will De Feddeed to		Alter Sou days, 1g	of element
a) (½) g b) (¾) g	c) (3/6) a	d) (1/16) s	_
Conjugate base for Bronsled acids H;	O and HF are	W16/1	•
a) OH <sup>-</sup> and H <sub>2</sub> F <sup>+</sup> respectively	b) H <sub>3</sub> O* and F	respectively	
c) OH <sup>-</sup> and F <sup>-</sup> respectively	d) H <sub>2</sub> O+ and H.	F* respectively	
Assertion: Pure iron when heated in	dry air is conveni	and touth - tour	
Reason . Rust has the compostion	Fe.O.	en with a rayer of fi	JSt
a) If both assertion and reason are	true and reason	s the correct number	
assenion			
) If both assertion and reason are tr	ue but reason is n	ol the correct avail	anation of
assertion		will act axiv	ananon u
<ul> <li>assertion is true but reason is false</li> </ul>	The state of the s		
<ul> <li>both assertion and reason are fals</li> </ul>	0		
Kindly send me your answer	r keys to us - padasa	alai.net@gmail.com	

XII Chemistry

	to. The coaquiation	na power of an eletros	an tot Arsenic sulphide :	tol, decreases in the order		
	a) Na*, Al3*, Ba2*		6) PO45, 80476, 0	b) PO45-, 8047-, CF		
c) Al <sup>3+</sup> , Ba <sup>2+</sup> , Na <sup>4</sup>				d) Or, SOAP, POAT		
	11. Williamson syr	othesis of preparing a	imethyl ether is a / an /			
	a) S' reaction	, and d	b) så reaction			
<ul> <li>c) electrophilic addition</li> </ul>			d) electrophilic sui	d) electrophilic substitution		
•	2. The carboxylic	acid that does not un	iderga HVZ reaction is			
	a) CH <sub>3</sub> COOH	оон <sub>b) (СН3</sub> ) <sub>2</sub> СН СООН				
	CH CH2 CH2 CH	<sup>1</sup> 2 CH2 COOH	d) (CH <sub>3</sub> ) <sub>3</sub> C - COOH			
1	<ol><li>The correct inc</li></ol>	reasing order of basis	c strength for the follow	ving compounds is		
	NH.	NH,	ин,			
		. 6	64			
	" (0)	II) (O)	m) >			
	a)    <   <	b) III < I < II	easile N es 1	d) (( < ))( < )		
14	Which one give	n below is a non-reda	ucios sugaro			
	a) Glucose	b) Sucrose	c) Maltose	d) Lactose		
15	Which of the fol	lowing is a co-port				
	a) Orton	b) PVC	c) PHBV	d) Teffon		
			Part - II			
	. Answer any 6-q	unstions. (QNo.24	is compulsory)	6 x 2 = 12		
16		ferences between m	inerals and ores?			
	Write a note on a	on metals? Give exa	t			
19		aracteristics of ionic	•			
,		eriod of a reaction.	Ciystais			
	•	ers? Give example.				
		aumann reaction				
	Write Gattermann reaction.					
24.	Identify A and B. I	Ethanoic acid Soc	A Pa/BaSO4			
		P	art - III	ь		
III.	Answer any 6 qu	iestions. (Q.No.33 i	s compulsory)	6×3×18		
25	Show that So2 is	a reducing agent				
25	vvnat is lanthano	id contraction and wh	nat are the effects of la	anthanide contraction?		
<b>Z</b> /;	m me complex, [F	I(INO2) (H2O) (NH1)	18r Identify the followi	na		
	ij Central metal a	tom/ton #) Ligan	ds iii) Coordination	on number		

## XII Chemistry

- 28. State Ostwald dilution law and derive its mathematical expression.
- 29. Write the rate law for the following reactions
  - a) A reaction that is 3/2 order in X and zero order in Y.
  - b) A reaction that is second order in NO and first order in Br<sub>2</sub>
- 30. Give the Gabriel Phthalimide synthesis of primary amines.
- 31. Give any three differences between DNA and RNA.
- 32. What are drugs? How are they classified?
- 33. Ionic conductance at infinite dilution of Al<sup>3+</sup> and SO<sub>4</sub><sup>2-</sup> are 189 and 160 mho cm<sup>2</sup> equiv<sup>-1</sup>. Calculate the equivalent and molar conductance of the electrolyte Al<sub>2</sub> (SO<sub>4</sub>)<sub>3</sub> at infinite dilution. Part - IV

IV. Answer all the questions.

 $5 \times 5 = 25$ 

- Explain Froth flotation process with an example. (5) 34. a)
  - How diborane is used for anit Markovnikov addition? (3) b)
    - Give the uses of Helium (2)
- Write the oxidation state, coordination number nature of ligand, magnetic property 35. a) and electronic configuration in octahedral crystal field for the complex K4[Mn(CN)6]
  - Derive integrated rate law for a first order reaction A → product. (3) i) b)
    - Which is stronger reducing agent Cr2+ or Fe2+ (2)
- Differentiate physisorption and chemisorption. (5) 36. a) (OR)
  - Calculate the concentration of hydrogen ions in moles per litre of a solution i) b) whose pH is 5.4) (3)
    - State Kohlrausch Law. (2) ii)
- Calculate the packing efficiency of face centered cubic crystal. (5) 37. a) (OR)
  - Explain the mechanism of Aldol Condensation. (3) b) i)
    - There are two isomers with the formula CH<sub>3</sub>NO<sub>2</sub>. How will you distinguish ii) between them. (2)
- Explain Kolbe's reaction. (3) i) 38. a)
  - How will you prepare acrolein? (2) ii)

(OR)

- What are bi degradable polymers? Give examples. (3) b)
  - Give two differences between Hormones and Vitamins. (2)