STD: X1 Marks: 30/ Time: 45min. Choose the correct answer. 1. lonic hydrides are formed by	,	MARK TEST – 5 CHEMISTRY	Lesson: 4 & 12
a) halogens b)	chaleogens	c) inert gases	d) group one elements
2. The magnetic moment of par	a-hydrogen is	and this description is a sign of the same of the	
a) one b)	zero	c) twice	d) maximum
3. Assertion: Permanent hardn	iess of water is ren	noved by treatment with w	ashing soda.
_		alcium and magnesium ch	lorides and sulphates in hard water
to form insoluble			
		ason is the correct explana	
		ason is not the correct exp	lanation of assertion
c) Assertion is true but re			
d) Both assertion and rea			
4. Which of the following state			
a) The magnetic moment			
b) Ortho form is more sta			
,		ed into the para form using	
		consists of 75% para form	
5. For decolourisation of 1 mo	_		- · · · · · · · · · · · · · · · · · · ·
a) $\frac{1}{2}$	$^{3}/_{2}$	c) $\frac{5}{2}$	d) $\frac{7}{2}$
6. Which one of the following	is used to study the	he movements of groundy	vater?
_	b) Protium	c) Tritium	d) HD
7. Which of the following stat		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.014
a) Hydrogen ion, H ₃ O ⁺	•	133 p. 13 p. 1 p. 1	
b) Dihydrogen acts as a	F 400 A	tion and by	
, .		tritium is the most commo	on
d) Hydrogen never acts			
8. Heavy water is used as	us cation in fome		
a) moderator in nuclear	reactions	b) coolant in nu	clear reactions
	reactions	d) none of these	the state of the s
c) both (a) and (b)	-1 hd		
9. At room temperature norm			5004
a) 25% ortho form + 75	· -	* , , , , , , , , , , , , , , , , , , ,	orm + 50% para form
c) 75% ortho form $+25\%$		A ST. August 1997	orm + 40% para form
10. The hardness of water car		NO 004 84 14 14 17 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A Property Transfer
a) sodium thio sulphate		b) potassium p	ermanganate
c) hydrogen peroxide		d) EDTA	The special state of the state
11. The correct order of melt	ing point of isoto	pes of hydrogen is	
a) $H < D < T$	b) T < D < H	c) $H < T < D$	d) $D < H < T$
12. Which of the following i			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
a) Deuterium	b) Protium	c) Tritium	d) Beryllium
		c) Intium	i po por di Dang Gran
13. In solid ice, oxygen aton	· ·	18	
a) tetrahedrally by 4 h			ally by 2 oxygen and 4 hydrogen atom
		ygen atoms d) octahedr	ally by 6 hydrogen atoms
14. Tritium nucleus contains	3		
a) 1p + 0 n	b) 2 p + 1n	c) $1p + 2n$	d) none of these
15. The half-life period of the	ritium is	- a Miller al	Address of the property of the second
a) 123.3 year	b) 12.33 years	c) 1 year	d) 1600 years
	and the same	-) - J - m	THE STATE OF THE S

16. Which of the following species does not exert a resonance effect? d) C₆H₅N H₃ b) C6H5C1 c) C6H5NH2 a) C₆H₅OH 17. Which of the following species does not acts as a nucleophile? d) BF3 b) ROR c) PCl₃ a) ROH 18. Which of the following species is paramagnetic d) All of these b) A free radical a) A carbaonium ion c) A carbanion 19. Which of the following carbocation will be most stable? d) CH,= CH - CH, c) (CH₂),-ČH a) Ph,C-CH,-CH,-20. Which one of the following is an example for free radical initiators? d) Benzaldehyde. a) Benzoyl peroxide b) Benzyl alcohol c) Benzyl acetate 21. During electrolysis of water containing traces of acid, hydrogen is liberated at d) none of the abo a) cathode b) anode c) both anode and cathode 22. For the Following reactions (A) $CH_3 CH_2 CH_2 Br + KOH \rightarrow CH_3 - CH = CH_2 + KBr + H_2O$ (B) (CH₃)₃ CBr + KOH \rightarrow (CH₃)₃ COH + KBr (C) $+ Br_2 \rightarrow \bigcirc$ Which of the following statement is correct'? a) (A) is elimination, (B) and (C) are substitution b) (A) is substitution, (B) and (C) are elimination c) (A) and (B) are elimination and (C) is addition reaction d) (A) is elimination, B is substitution and (C) is addition reaction. 23. Autoxidation of 2-alkyl anthraquinol gives a) Hydrogen peroxide b) Heavy water c) Hydrogen d) Water 24. Which of the following species is not electrophilic in nature? b) BH₃ c) H₃O⁺ d) [†]NO₂ 25. Heterolytic fission of C-C bond results in the formation of a) free radical b) Carbanion c) Carbocation d) Carbanion and Carbocation 26. Which of the following is correct order of the stability of carbocations? a) +CH₃ > +CH₂ CH₃> +CH(CH₃)₂> +C(CH₃)₃ b) +CH₂CH₃ > +CH₃ > + CH(CH₃)₂ > +C(CH₃)₃ c) $^{+}$ C(CH₃)₃ > $^{+}$ CH(CH₃)₂ > $^{+}$ CH₂CH₃ $^{-}$ CH₃ d) $^{+}CH(CH_3)_2 > ^{+}CH_3 > ^{+}CH_2CH_3 > ^{+}C(CH_3)_3$ 27. The percentage of heavy water in normal water is a) 1.6×10^4 b) 1.6×10^{-4} c) 1.6×10^{-3} d) 1.6×10^2 28. Hyper Conjugation is also known as a) no bond resonance b) Baker - Nathan effect c) both (a) and (b) d) none of these 29. Methyl carbanion is a) Electrophile b) Lewis acid c) Both (a) and (b) d) Nucleophile 30. What is the hybridisation state of benzyl carbonium ion? a) sp^2 b) spd² c) sp^3 d) sp²d

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1 mores Test - 5

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/	III Wan	IKOI	1850n.4812
5. No	Answ	OKey	
	d. Goroup one element	18)	HA free nodical
	b. 2010	19)	0) Benzoul Penoale Phac-t
3)	a. Both assention and meason over the		
	Correct explanation of	(۱ ج	a. cathode
4)	6. Ontho from is monestall	22)	d. A is elimination, B is substitution and (c) is
	than Pana Form		addition neaction.
•	C. 92	23)	a- Hydrogen Peroxide
6)	a. Deutoum		., 1
4)	c. Hydorogen has thorse	24)	
	isotopes of which triffing	25)	
و/	- Latte (a) and (b)	26)	C. + E(CH3)3>+ CH(CH3) 5 CH3 CH3 CH3 CH3 CH3
ر ما	C. 757. Ontho form 125%.		Crr 3 413
۹	Pana form	H)	P. 1.0x10,
10)	d. EDTA	78)	b. 1.6x10 ²⁴ c. both (a) and (b) d. Nucleophile
u)	a. HZDZT	201	2. Nucleophile
12)	C. Toutsum	(PA	102
13)	a tenahedrally by 4 hydrogen	30)	α , SY :
	Otom		

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STD:	XI
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ONE MARK TEST - 6 CHEMISTRY

	_	0.	41
Lesson:	3	œ	"

Marks: 30 / Time: 45 Min. Choose the correct and

- ose the c					
1. Assertion:	BeSO ₄ is	soluble in	water wh	ile BaSO	is not

Reason: Hydration energy decreases down the group from Be to Ba and lattice energy remains almost constant.

- a) both assertion and reason are true and reason is the correct explanation of assertion
- b) both assertion and reason are true but reason is not the correct explanation of assertion
- c) assertion is true but reason is false
- d) both assertion and reason are false
- 2. Which of the following is radioactive in group one elements?
 - a) Lithium
- b) Caesium
- c) Rubidium
- d) Francium
- 3. For alkali metals, which one of the following trends is incorrect?
 - a) Hydration energy: Li > Na > K > Rb
- b) Ionization energy: Li > Na > K > Rb

c) Density: Li < Na < K < Rb

- d) Atomic size: Li < Na < K < Rb
- 4. Which one of the following gives red colour in flame test?
 - a) Lithium
- b) Sodium
- c) Potassium
- d) Francium
- 5. In which process, fused sodium hydroxide is electrolysed for extraction of sodium?
 - a) Castner's process b) cyanide process
- c) Down process
- d) All of these
- 6. A colourless solid substance (A) on heating evolved CO2 and also gave a white residue, soluble in water. Residue also gave CO₂ when treated with dilute HCl.
 - a) Na₂CO₃
- b) NaHCO₃
- c) CaCO₃
- d) Ca (HCO₃)₂
- 7. Which metal is used as radiation windows for X-ray tubes?
 - a) Magnesium
- b) Sodium
- c) Calcium
- d) Beryllium
- 8. Arrange the following in increasing order of hydration enthalpy.
 - a) $Rb^+ > Li^+ > Na^+ > K^+ > Cs^+$

b) $Cs^+ > Rb^+ > K^+ > Na^+ > Li^+$

c) $Li^+ > Na^+ > K^+ > Rb^+ > Cs^+$

- d) $K^+ > Na^+ > Li^+ > Rb^+ > Cs^+$
- 9. Which of the following has the highest tendency to give the reaction

$$M^+(g) \xrightarrow{Aqueous} M^+(aq)$$

- a) Na
- b) Li

- c) Rb
- d) K

- 10. Which of the following reaction produces hydrogen?
 - a) $Mg + H_2O$
- b) $H_2S_4O_8 + H_2O$
- c) $BaO_2 + HCl$
- d) $Na_2O_2 + 2HC1$

- 11. Spodumene and lepidolite are the minerals of
 - a) lithium
- b) sodium
- c) potassium
- d) rubidium
- 12. In context with beryllium, which one of the following statements is incorrect?
 - a) It is rendered passive by nitric acid
- b) It forms Be₂C
- c) Its salts are rarely hydrolysed
- d) Its hydride is electron deficient and polymeric
- 13. The name 'Blue John' is given to which of the following compounds?
 - a) CaH₂
- b) CaF2.
- c) $Ca_3(PO_4)_2$
- d) CaO

	nction of the sodium-potassium	pump?	ulse conduction	
a) Maintenance of ion balance		b) Used in nerve impulse conduction		
	ng nerve signals	d) Regulates the blo	od levei	
15. Find the wrong				
a) sodium me	tal is used in organic qualitative	analysis	• • •	
b) sodium car	bonate is soluble in water and it	t is used in inorganic qual	itative analysis	
c) potassium	carbonate can be prepared by So	olvay process		
	bicarbonate is acidic salt			
16. Phenol dimeris	es in benzene having van't Hoff	factor 0.54. What is the o	legree of association?	
a) 0.46	b) 92	c) 46	d) 0.92	
17. In which mode	of expression of concentration of	of a solution remains inde	pendent of temperature?	
a) Molarity	b) Normality	c) Formality	d) Molality	
18. The partial pres	ssure of nitrogen in air is 0.76atr		stant is 7.6x10 ⁴ atm at 300K. What	
			bubbled through water at 300K?	
a) 1×10^{-4}	b) 1 x 10 ⁻⁶	c) 2 x 10 ⁻⁵	d) 1 x 10 ⁻⁵	
19. For A and B to	form an ideal solution which of		should be satisfied?	
a) $\Delta H_{\text{mixing}} =$	0	b) $\Delta V_{\text{mixing}} = 0$		
c) $\Delta S_{mixing} = 0$,		ons mentioned above	
20. Which of the fo	ollowing is correct for a solution			
a) $\Delta V = +ve$,	$\Delta H = + ve$	b) $\Delta V = -ve$, $\Delta H = -$		
c) $\Delta V = + ve$	$\Delta H = -ve$	d) $\Delta V = -ve$, $\Delta H =$		
21. The K _H for the	solution of oxygen dissolved in	water is 4 x 10 ⁴ atm at a	given temperature. If the partial	
pressure of ox	ygen in air is 0.4 atm, the mole	fraction of oxygen in solu	tion is	
a) 4.6×10^3	b) 1.6 x 10 ⁴	c) 1 x 10 ⁻⁵	d) 1 x 10 ⁵	
22. What is the mo	lality of a 10% W/W aqueous so		?	
a) 2.778	b) 2.5	c) 10	d) 0.4	
23. Lithium reacts	directly with carbon to form	A CAL		
a) Li ₂ C ₂	b) Li ₂ C	c) LiC ₂	d) LiC	
24. The molality of	f a solution containing 1.8g of g	lucose dissolved in 250g		
a) 0.2 M	b) 0.01 M	c) 0.02 M	d) 0.04 M	
25. Sodium reacts	with acetylene to give		,	
	hoxide b) Sodium acetylide	c) Sodium hydroxid	le d) Sodamide	
	air shows a positive deviation fr	,	,	
a) Acetone -		b) Benzene – metha	anol	
c) Water - ni		d) Water – hydroch		
	re (π) of a solution is given by t			
a) $\pi = nRT$	b) $\pi V = nRT$	c) $\pi RT = n$	d) none of these	
	M sulphuric acid is	9, 1111		
a) 2 N	b) 4 N	c) N/2	d) N/4	
	vering of vapour pressure of a s			
water in that so		agai solation in water is		
a) 0.0035	b) 0.35	c) 0.0035/18	d) 0.9965	
	The second secon		les of which undergoes association	
in solution, is	and a me active of an association	in moreous	and the second of the second o	
a) $\alpha = \frac{n(i-1)}{n-1}$	b) $\propto^2 = \frac{n(1-i)}{(n-1)}$	n(i-1)	d $n(1-i)$	
a) $\alpha = \frac{\alpha}{\alpha}$	b) $\alpha^{-}=\frac{1}{(-1)}$	c) $\alpha = \frac{1}{1-n}$	$\alpha = \frac{1}{n(1-i)}$	

XI + C hemit www.TrbTnpsc.com www.Padasalai.Net Onemark Test - 6 D. both assertion reason are line. d) Foromcium 3. C) pennity ! Li CNa < + ed 4. a) Lithium 5. ay. contier's process 5. b) . Na14C03 z. of). Beryllium 3. c) sit) Nat > kt Rbt 7 cst 1-6) hi 8. a) Mg + H20. 1-a) Lithium 2. C) Its solls are navely hydrolysed 13. b) caF2 4.c) Transmitting signals nerve

15. c). Potassium carbonate can be prepared by solvay Process.

16. d) 0.92

17. ds Molality

7-esson: 58 9.

18. dd 1x15-5

19. d) All the River conditions mentioned above.

20. a) AV=+ Ve, DH=+Ve

21. e). 1×10-5

22. 6) 2-5

23. a) Lize2

24. d) 0.04M

25. b) 80dium aretylide

26. b). Benzene. methonal

27. by IV=nRT

28. b) 4N

29 . 2) 0,9965

30. 4

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Lesson: 14 STD: XI ONE MARK TEST - 9 **CHEMISTRY** Marks: 30 / Time: 45 Min. Choose the correct answer. 1. Which of the following is an example of polyhalo compounds? d) Chloroform c) Allyl chloride a) Vinyl iodide b) Chlorobenzene 2. The IUPAC name of b) 4-Bromo pent - 2 - ene a) 2-Bromo pent -3 – ene d) 4-Bromo pent - 1 - ene c) 2-Bromo pent – 4 – ene 3. IUPAC name of allyl chloride is b) 3 - chloro- 1 - propyne a) 1 - chloro ethane d) 1 - chloro propane c) 3 - chloro - 1 - propene 4. Propane nitrile may be prepared by heating b) ethyl chloride with KCN a) Propyl alcohol with KCN d) ethyl chloride with KCN c) Propyl chloride with KCN 5. Assertion: In mono haloarenes, electrophilic substitution occurs at ortho and para positions. Reason: Halogen atom is a ring deactivator. a) If both assertion and reason are true and reason is the correct explanation of assertion b) If both assertion and reason are true but reason is not the correct explanation of assertion c) If assertion is true but reason is false d) If both assertion and reason are false. 6. Which of the following is called Lucas reagent? b) Conc.HCl + Anhydrous ZnCl₂ a) Conc. H₂SO₄ + Anhydrous CuSO₄ d) Conc.HCl + ConcHNO₂ c) Dil.HCl + AlCl₃ 7. C-X bond is strongest in b) Iodomethane c) Bromomethane d) Fluoromethane a) Chloromethane 8. The raw material for Rasching process c) benzene d) anisole b) phenol a) chloro benzene R - I + NaCl. This reaction is 9. R - Cl + NaI c) Finkelstein reaction d) Huck reaction b) Fittig reaction a) Wurtz reaction 10. Ethylidene chloride on treatment with aqueous KOH gives d) glyoxal c) formaldehyde b) ehtyleneglycol a) acetaldehyde 11. The order of reactivity of various alkyl halides toward S_N1 reaction is d) $1^{\circ} > 3^{\circ} > 2^{\circ}$ c) $3^{\circ} < 2^{\circ} > 1^{\circ}$ a) $3^{\circ} > 2^{\circ} > 1^{\circ}$ b) $1^{\circ} > 2^{\circ} > 3^{\circ}$ 12. Consider the reaction, CH₃CH₂CH₂Br + NaCN → CH₃CH₂CH₂CN + NaBr This reaction will be the fastest b) methanol in a) ethanol c) DMF (N, N' - dimethyl formamide) d) water 13. acetone b) 2-methyl-2-propanol a) 2-propanol d) acetonol c) 1 -propanol 14. The correct order of increasing boiling points is a) 1 - chloropropane < isopropylchloride < 1 - chlorobutane b) isopropylchloride < 1 – chloropropane < 1 – chlorobutane c) 1 - chlorobutane < isopropylchloride < 1 - chloropropane d) 1 - chlorobutane < 1 - chloropropane < isopropylchloride

			adainst dibalides?
15. Which of the following	reagent is used to disting	uish gem-dihalides and c) FeCl ₃ / Cl ₂	d) Ethanol
a) Alcoholic KOH	b) Aqueous KOH	C) I Cars	
16. The most easily hydroly a) allyl chloride	sed molecule under SN' b) ethyl chloride	e) ispropylchloride	d) benzyl chloride
17. The treatment of ethyl for	ormate with excess of RN		
The treatment of english			
a) R- C - R	b) R-CH-R	c) R- CHO	d) R- O – R
	, OH		
18. With respect to the posit	ion of - Cl in the compo	und CH3 - CH = CH -	CH2 – Cl, it is classified a
a) Vinyl	b) Allyl	c) Secondary	d) Aralkyl
19. Chlorobenzene on nitrat	•		
a) 1 – chloro – 4 – niti		b) 1 - chloro - 3 - n	itro benzene
c) 1, 4 – dinitro benze		d) 2, 4, 6 – tri nitro l	
20. Classify the following co			
a) CH_3 - $CH = CH$ - Cl	•	b) C ₆ H ₅ CH ₂ I	
е) сн. сн. сн.		d) $CH_2 = CH - CI$	
Br			
	· .		
21. $CH_3CH = CH_2 \frac{HBr}{Peroxide}$	aqu KOH	. ,	
			1)1 2
• •	b) propanal – 1	c) propanol – 1	d) propanal – 2
22. Freon – 12 is	P) CHCLE	a) CE CI	A) DDT
	b) CHCl ₂ F	c) CF ₂ Cl ₂	d) DDT
23. The major products obtain a) 1-chloro-4-nitrobenz		b) 1-chloro-2-nitrobe	
c) 1-chloro-3-nitrobenz		d) 1-chloro- 1 –nitro	
24. The name of C ₂ F ₄ Cl ₂ is _		d) remote r muot	och zene
a) Freon – 112	b) Freon – 113	c) Freon – 114	d) Freon – 115
25. Which of the following p		,	,
a)-SH-&-OH	b)-CN-&-NO ₂	c)-Br-&-Cl	d)-O-&-CHO
26. Of the following compou	,	,	
a) n-Butyl chloride		b) Isobutyl chloride	
c) t-Butyl chloride	* .	d) n-propyl chloride	
27. Which one of the following	ng is used to test primary	amines?	
	b) Carbylarnine test	c) Dye test	d) Silver mirror test
28. Benzene reacts with Cl ₂ is		and in absence of sunlig	ht to form
a) Chlorobenzene	•	b) Benzyl chloride	
c) Benzal chloride		d) Benzene hexachlo	ride
29. Chloro benzene can be pr	epared by reacting benze	ene diazonlum chloride	with
	b) Cu ₂ Cl ₂ / HCl	c) Cl ₂ / AlCl ₃	d) HNO ₂
30. The name of DDT			
a) p, p' - dichloro diphe			phenyl trichloro ethene
c) p, p' – dichloro diphe	enyl tnchloro benzene	d) p, p' – tetra chloro	ethane

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Class - 11

Chemistry

One mark Test - 9

Answer key

Lesson - 14

- 1. d) Chloroform
- 2. by 4-Bromopent-2-ene
- 3° c> 3 chloro 1 propane
- 4 . C> propyl chlorede with KCN
- 5. by IF both assertion and reason

 are true but reason 9s not

 the Correct explanation of

 assertion
- 6. b) Conc. HCI + Anhydrous ZnCl,
- 7. d> Fluromethone
- 8. (> benzene
- 9. C> Finkelstein reaction
- 10. a) aretaldehyde
- 11. α 3° > 2° > 1°
- 12. () DMF (N, N'-dimethyl Formamade)
- 13. b) 2-Methyl -2-Propanol
- 14. at 1-Chloropropane Zisoprophy) Chloride ZI-Chlorobutane
- 15. by Aqueous KOH

- 16. d> benzyl Chlorede
- 17. by R-(H-R 1 OH
- 180 by Allyl
- 19. a> 1-Chloro-4-netro benzone
- 20.
- 21. by propanal 1
- 22 ° C7 CF2 C12
- 23. a) 1- Chioro-4- nº trobenzene
- 24 ° () Freon -114
- 25. by -CN- \$1&- NO2
- 26. a> n-Butyl Chlorade
- 27. by Carbylarnine test
- 28. a) Chlorobenzene
- 29. b> cu, ci, /HCI
- 30. a> p,p'- dechloro diphony)
 Evichloro ethana.

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