1.	The final	product	of the	reaction	HC = C	CH+	2HCI	→ will be :
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(1) CH2CI-CH2CI

(2) CH2=CHCI

(3) CH<sub>3</sub>CHCl<sub>2</sub>

(4) CHCI=CHC

#### 2. Which of the following is amphoteric:

(1) GeO<sub>2</sub>

(2) CO<sub>2</sub>

(3) PbO<sub>2</sub> (4) All same

### 3. CH3COOC5H11 is obtained by :

(1) C<sub>5</sub>H<sub>11</sub>OH + CH<sub>3</sub>COOH

(2)  $C_5H_{11}CH_2OH = HCOOH$ 

(3)  $C_2H_5OH = C_5H_{11}OH$ 

(4)  $(CH_3)_3$  -C-COOH =  $C_5H_{11}OH$ 

### 4. 5 amp. current is passes through a dry cell for 2 hours. The value of produced electric current will be:

(1) 36 x 10<sup>8</sup> C

(2) 3.6 x 108 C

(3) 36 x 10<sup>4</sup> C

(4) 3.6 x 10<sup>4</sup> C

## 5. Which of the following statement is false for tranis-1, 2-dichloro ethane:

(1) chlorine atoms are nearer to each other

(2) total nos of bonds are six

(3) free rotation of C=C is possible

(4) none of these

# 6. Orthoultropnenol is a A;

(1) Lewis base

(2) Lewis acid

(3) 1 and 2

(4) nither 1 nor 2

# 7. Which of the following shows cistrans isomerism:

(1) CH3-C-Br=C-Cl2

(2) CH3-CH=Ch2

(3) C1-CH=CH-CH<sub>3</sub>

(4) (CH<sub>3</sub>)<sub>2</sub>-C=CH-C1

(2) O<sub>2</sub><sup>+</sup> is paramagnetic
 (3) No is diamagnetic

(1) K

(4) He2 is less stable than He2

(2) CO

19. For which of the following elements the quantum nos are 3, 2, 0, + 1/2:

(3) Ne

20. The coordination nos. of Na and C1 in NaCI are respectively:

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(4) C1

(1) 6, 6	(2) 4, 6 (3) 6, 8 (4) 8, 8
21. In comparisi	on of Cu and Ag:
	easily oxidized in comparision with Ag.
	easily oxidized in comparision with Cu
	oxidizes simultaneously
(4) Do no	
(1) 20 110	
22. Molarity of 2	00 ml. of 18.25 N NaOH will be :
(1) 32.5 M	(2) 91.25 M (3) 2.28 M (4) 22.8 M
AND STREET	Art and Art an
23. In Haber's p	rocess if temperature is increased :
(1) Reacti	
(2) There	is no effect
(3) Yield	of NH <sub>3</sub> decreases
(4) Yield	of NH <sub>3</sub> increases
	rmula of alkane, alkene and alkyne is :
	to cyclopean
The state of the s	to each other
(3) all are	
(4) none of	of these
25. CF2C1 <sub>2</sub> is us	ed as :
(1) Anaesthic	
	Maria and a second control of the second con
26. The weight o	f carbon atom is :
(1) 1.9 x 10 <sup>-23</sup>	(2) 12 gm (3) 6 gm (4) 6.02 gm. X 10 <sup>23</sup> gm.
	(/, - 8
27. The pH of 10	S M HCI is:
(1) less than 7	
	following statement is true :
(1) C <sub>6</sub> H <sub>6</sub>	does not show resonance
(2) CO <sub>2</sub> do	oes not show resonance
(3) Both o	do not show resonance
(4) CO <sub>2</sub> ar	nd C <sub>6</sub> H <sub>6</sub> show resonating structures
	200
	he following compound >C=0 group is not present:
(1) Alkane	(2) Aldehyde (3) Acids (4) Ketone
30. The mole fra	ction of acetone in a solution of 2.8 mole acetone and 8.2 mole of CHC13 will be :
(1) 0.540	(2) 0.241 (3) 0.254 (4) 0.524
27.50	
	following element has high ionization potential:
(1) Ne (2) I	Be (3) Li (4) O
22 Which of the	fellowing has blokest belling point .
(1) HI	following has highest boiling point: (2) HC1 (3) HF (4) HBr
(1)111	(2) HC1 (3) H1 (4) HB1

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(4) 4 gm. No

45. In which of the following there are minimum nos. of molecule:

46. In which of the following central atom uses sp2 hybrid orbitals:

(3) PH<sub>3</sub> (4) CH<sub>3</sub>

(1) 2 gm. H<sub>2</sub> (2) 8 gm. O<sub>2</sub> (3) 16 gm. CO<sub>2</sub>

(2) NH<sub>3</sub>

(1) SbH<sub>3</sub>

73. Alkane is found by : (1) Reaction by alky I halide

(2) Wurtz reaction (3) Grignard reagent (4) All these

(2) different physical and chemical properties

(3) common physical but different chemical properties

(4) common physical properties

(2) Ca

84. Which of the following is not a conjugate base:

(1) CH<sub>3</sub> (2) OH-(3) CO<sub>2</sub> (4) none of these

85. Plaster of paris is a compound of the following element: (1) K (4) Na (3) Mg

86. Benzene → Toluene is formed by :

(1) Anti-mark rule

98. Which one is electrolyzed in the metallurgy of aluminium:

(1) Cryolite and Alumina

(2) Alumina (3) Cryolite (4) Bauxite

## 99. Which of the following gives rod colour precipitate with sodium cupritartaarate:

(1) CH<sub>3</sub>COOH

(2) CH<sub>3</sub>COCH(3) CH<sub>3</sub>COC<sub>2</sub>H<sub>5</sub>

(4) CH<sub>3</sub>CHO

### 100. Which of the following are present in picric acid:

(1) -NO2 group

(2) -OH and -NO2 group

(3) -NO2 and -COOH groups

(4) -OH group

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			100000	Train an Pr	I SHE	4.4				
1.(3)	2.(1)	3.(1)	4.(4)	5.(3)	6.(1)	7.(3)	8.(3)	9.(4)	10.(4)	11.(2)
12.(4)	13.(3)	14.(3)	15.(4)	16.(2)	17.(4)	18.(2)	19.(1)	20.(1)	21.(1)	22.(2)
23.(3)	24.(3)	25.(3)	26.(1)	27.(1)	28.(2)	29.(1)	30.(3)	31.(1)	32.(3)	33.(2)
34.(3)	35.(2)	36.(3)	37.(1)	38.(1)	39.(4)	40.(3)	41.(3)	42.(1)	43.(3)	44.(2)
45.(4)	46.(4)	47.(3)	48.(3)	49.(1)	50.(3)	51.(4)	52.(1)	53.(3)	54.(1)	55.(3)
56.(1)	57.(3)	58.(2)	59.(1)	60.(2)	61.(3)	62.(2)	63.(3)	64.(4)	65.(1)	66.(3)
67.(4)	68.(3)	69.(2)	70.(3)	71.(4)	72.(1)	73.(4)	74.(4)	75.(1)	76.(1)	77.(1)
78.(3)	79.(2)	80.(2)	81.(3)	82.(4)	83.(3)	84.(4)	85.(2)	86.(2)	87.(3)	88.(2)
89.(1)	90.(4)	91.(2)	92.(3)	93.(3)	94.(1)	95.(2)	96.(1)	97.(2)	98.(1)	99.(4)
100.(2)	22.50	1,11							139	13.5