



16) A gas expands isothermally against a constant pressure of 2 atm from a volume of 20 dm³ to a volume of 40 dm³. It absorbs 1600 J of thermal energy from its surrounding. Then ΔU is

- a) -312 J b) + 2452 J
c) -2452 J d) + 2440 J

17) In the fourth energy level, the number of orbital are

- a) 16 b) 8
c) 7 d) 6

18) Find true and False from the following statements regarding carbohydrates

- S₁: Maltose is a reducing sugar.
S₂: Sucrose is an oligosaccharide.
S₃: A pair of diastereomeric aldoses which differ only in configuration at C-1 are anomers.
S₄: Oxidation of glucose by HNO₃ gives saccharic acid.

- a) TTTT b) FTFT
c) FTFT d) FTTT

19) Match List I with List II and choose the correct option.

List I		List II (Number of moles)	
(A)	11 g of CO ₂	(I)	0.05
(B)	6.022 × 10 ²¹ molecules of CO ₂	(II)	0.01
(C)	11.2 L of CO ₂ at S.T.P	(III)	0.5
(D)	4.9 g of H ₂ SO ₄	(IV)	0.25

- a) A-IV, B-II, C-III, D-I b) A-III, B-II, C-IV, D-I
c) A-II, B-I, C-III, D-IV d) A-II, B-III, C-IV, D-I

20) Consider the following statements;

(I) 2-Chloroethanoic acid is more acidic than ethanoic acid.

(II) Acidic strength of: $\text{H}-\text{C}(=\text{O})-\text{OH} > \text{H}-\text{C}(=\text{O})-\text{OH} > \text{H}-\text{C}(=\text{O})-\text{OH}$

(III) Acidic strength of: $\text{R}-\text{C}\equiv\text{C}-\text{H} < \text{R}-\text{C}(\text{R})=\text{C}(\text{R})-\text{H} < \text{R}-\text{C}(\text{R})_2-\text{H}$

Select the correct statements

- a) I, II and III b) I and II
c) II and III d) I and III

21) The value of observed molecular weight of silver nitrate is 133.5 gram/mole in an aqueous solution the degree of dissociation of silver nitrate in this solution may be

- a) 32% b) 27%
c) 79% d) 49%

22) Oxidation of alcohol with KMnO₄ gives an acid of molecular formula C₃H₆O₂. On heating C₃H₆O₂ with sodalime, the gas evolved will be

- a) C₂H₂ b) CH₄
c) C₂H₆ d) C₂H₄

23) Which one of the following groups represents a collection of isoelectronic species? (Atomic No. : Cs = 55, Br = 35)?

- a) Ca²⁺, Cl⁻, S²⁻ b) Na⁺, K⁺, Mg²⁺
c) N³⁻, F⁻, Na⁺ d) Both a) and c)

24) Passage of 1 A current through 0.1M Ni(NO₃)₂ solution using Ni electrodes bring in the concentration of solution to _____ in 60 seconds

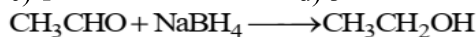
- a) 0.1M b) 0.05M
c) 0.2M d) 0.25M

25) Hybridisation involved in [AgF₄]⁻ is;

- a) sp³ b) dsp²
c) d³s d) None of these

26) Difference between the number of chiral carbon present in β-D-(+)-Glucose and β-D-(-)-Fructose is

- a) 2 b) 0
c) 1 d) 3



Nucleophile added in this reaction is;

- (1) BH₄[⊖] (2) Na⁺
(3) H[⊕] (4) H[⊖]

27) **Answer Key for 22-04-2025 NEET MODEL QUESTION PAPER – CHEMISTRY**

Q	1	2	3	4	5	6	7	8
A	B	A	B	C	B	B	C	D
Q	9	10	11	12	13	14	15	
A	C	D	D	C	A	D	D	

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