



- 42) What will be the work done when temperature of 10 mole of a ideal gas is increased by 5°C at constant pressure?
a) -0.5 R b) -50 R
c) $+0.5 \text{ R}$ d) $+50 \text{ R}$
- 43) What will be the uncertainty in momentum when uncertainty in velocity and position are equal?
a) $\frac{1}{2} \sqrt{\frac{mh}{\pi}}$ b) $\frac{m}{2} \sqrt{\frac{h}{\pi}}$
c) $\frac{mh}{4\pi}$ d) $\frac{1}{4} \sqrt{\frac{mh}{\pi}}$
- 44) Sum of lone pair of electrons in I_3^- and I_3^+ is
a) 5 b) 6
c) 17 d) 18
- 45) Equivalent mass of oxidising agent in the reaction, $\text{CO}_2(\text{g}) + \text{H}_2(\text{g}) \rightleftharpoons 2\text{CO}(\text{g}) + \text{H}_2\text{O}(\text{g})$ is
a) 44 b) 11
c) 22 d) 12
- 46) The number of hydrogen atoms in plane and 2-centre-2-electron bonds in B_2H_6 respectively, are
a) 4 and 4 b) 6 and 4
c) 2 and 2 d) 4 and 6
- 47) The correct statements among the following is
(I) Boric acid is a weak monobasic lewis acid.
(II) Boron trioxide is acidic and reacts with basic (metallic) oxides forming metal borates.
(III) Oxides of indium and thallium are amphoteric.
a) I, II and III b) I and III only
c) I and II only d) II and III only
- 48) The first ionisation potential of Rb is 4.1 eV . The value of electron gain enthalpy of Rb^+ will be
a) -2.05 eV b) -4.1 eV
c) $+2.05 \text{ eV}$ d) $+4.1 \text{ eV}$
- 49) Which of the following is sulphur containing amino acid?
a) Serine b) Glutamine
c) Methionine d) Tyrosine

- 50) Which one of the following would have same value of van't Hoff factor as that of $\text{Ca}(\text{NO}_3)_2$?
a) $\text{Al}(\text{NO}_3)_3$ b) CaCO_3
c) KCl d) BaCl_2
- 51) Difference of optically active and optically inactive stereoisomer, for the complex $[\text{Co}(\text{en})_2\text{Cl}_2]\text{Cl}$ will be
a) 2 b) 1
c) 3 d) 4
- 52) The standard reduction potentials of Cr^{2+}/Cr and Cr^{3+}/Cr are -0.90 V and -0.41 V respectively. The standard electrode potential of $\text{Cr}^{3+}/\text{Cr}^{2+}$ half-cell is
a) 3.03 V b) 0.57 V
c) -0.57 V d) -3.03 V
- 53) Glucose on oxidation with nitric acid gives
a) saccharic acid b) gluconic acid
c) hexanoic acid d) n-Hexane
- 54) Phenol reacts with heated zinc dust forms compound A, which on further reaction with ethylchloride in presence of anhyd. AlCl_3 gives B. Identify B.
a) Ethylbenzene b) Chlorobenzene
c) Benzylchloride d) 2-Ethylphenol
- 55) The second ionisation potential in electron volts of oxygen and fluorine atoms are respectively given by
a) 35.02, 35.02 b) 35.17, 35.02
c) 35.02, 35.17 d) 35.17, 35.17
- 56) Which one is diamagnetic and has the largest bond length?
a) C_2^{2-} b) O_2
c) O_2^{2-} d) N_2^{2-}
- 57) The oxoacid of sulphur that contains oxy linkage between sulphur atoms is
a) $\text{H}_2\text{S}_2\text{O}_7$ b) $\text{H}_2\text{S}_2\text{O}_8$
c) $\text{H}_2\text{S}_2\text{O}_5$ d) $\text{H}_2\text{S}_4\text{O}_6$

Answer Key for 24-04-2025 NEET MODEL QUESTION PAPER – CHEMISTRY

Q	28	29	30	31	32	33	34
A	B	D	B	B	C	B	A
Q	35	36	37	38	39	40	41
A	A	C	D	C	C	B	A

– தொடரும்

