

Marking Scheme for WBJEE 2026

Understanding the marking scheme is essential for efficient answering and attempting questions with a strategic mindset. Check marking scheme in the table provided below:

WBJEE Marking Scheme 2026		
Category	Marks Distribution	Negative Marking
Category I	1 mark	1/4 mark
Category II	2 mark	1/2 mark
Category III	2 mark	No Negative Marking

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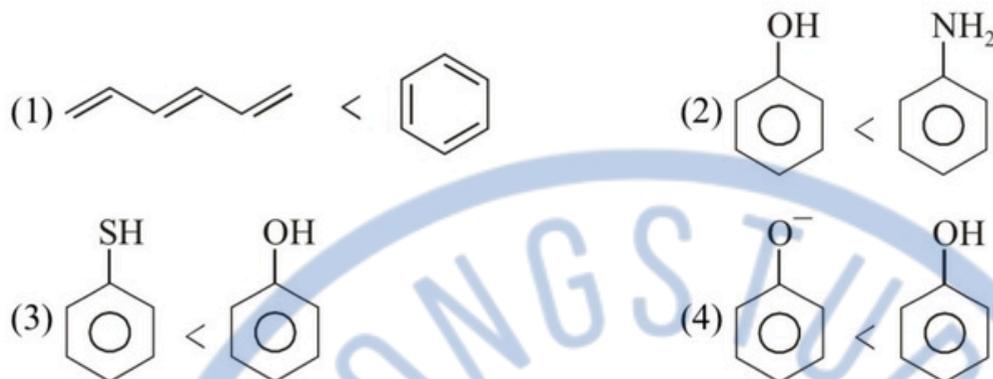
CHEMISTRY

Category-1

1. There is 34 g H_2O_2 in its 2L aqueous solution. The volume strength of the solution is :
(1) 33.6 V (2) 5.6 V (3) 22.4 V (4) 11.2 V

2. Syn gas is a mixture of:
(1) $\text{CO}_2 + \text{H}_2$ (2) $\text{CO} + \text{H}_2$ (3) $\text{CO} + \text{CO}_2$ (4) $\text{CO} + \text{N}_2$

3. Which order is incorrect according to their resonance energy :

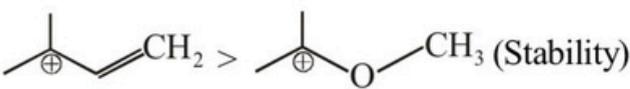
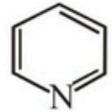


4. The ratio of mass percent of C and H of an organic compound $\text{C}_x\text{H}_y\text{O}_z$ is 7.5 : 1. If the percentage of oxygen in the compound is 32%. Then, the empirical formula of the compound is :
(1) $\text{C}_2\text{H}_4\text{O}$ (2) $\text{C}_5\text{H}_4\text{O}$ (3) $\text{C}_3\text{H}_3\text{O}_2$ (4) $\text{C}_5\text{H}_8\text{O}_2$

5. The correct order in which the O–O bond length increases in the following is :
(1) $\text{O}_3 < \text{H}_2\text{O}_2 < \text{O}_2$ (2) $\text{O}_2 < \text{O}_3 < \text{H}_2\text{O}_2$
(3) $\text{O}_2 < \text{H}_2\text{O}_2 < \text{O}_3$ (4) $\text{H}_2\text{O}_2 < \text{O}_2 < \text{O}_3$

6. Which of the following group has the maximum hyperconjugation effect when attached to benzene ring?
(1) $(\text{CH}_3)_3\text{C}-$ (2) CH_3-CH_3- (3) $(\text{CH}_3)_2\text{CH}-$ (4) CH_3-

7. 3L mixture of $\text{O}_2(\text{g})$ and $\text{N}_2(\text{g})$ is passed through ozonizer. The gas mixture obtained contains O_2 , O_3 and N_2 gases only. This obtained mixture is passed through alkaline pyrogallol and then through turpentine oil, there were 1100 mL and 600 mL volume contractions respectively. The volume of $\text{O}_2(\text{g})$ and $\text{N}_2(\text{g})$ in the original mixture respectively is -
(1) 1.5 L, 1.5 L (2) 2.5 L, 0.5 L (3) 1L, 2 L (4) 2 L, 1 L

8. In the solvay process of manufacturing of Sodium Bicarbonate, the final by-product is :
 (1) NH_4Cl (2) NaHCO_3 (3) CaCl_2 (4) CO_2
9. Which comparison is not correct as indicated ?
- (1) -OH > CH_3OH (Acidic nature)
- (2)  (Stability)
- (3)  >  (Basic nature)
- (4) $\text{R}-\overset{\overset{\text{O}}{\parallel}}{\text{S}}-\overset{\ominus}{\text{O}} > \text{R}-\overset{\overset{\text{O}}{\parallel}}{\text{C}}-\overset{\ominus}{\text{O}}$ (Stability)
10. 15 g of a gas present in 5L vessel exerts a pressure of 0.1 bar. What is the root mean square speed of the gas molecules?
 (1) 50 m/s (2) 10^2 cm/s (3) 100 m/s (4) 75 m/s
11. In which of the following pair both the chlorides do not impart colour to the flame?
 (1) BeCl_2 and SrCl_2 (2) BeCl_2 and MgCl_2
 (3) CaCl_2 and BaCl_2 (4) MgCl_2 and CaCl_2
12. Which species has dipole moment?
 (1) Chair form of Cyclohexane-1,4-dione (2) p-chloro phenol
 (3) Staggered form of 1,2-dichloro ethane (4) Trans-2-butene
13. An open container of volume 5L contains air at 27°C and 1 atm. The container is heated to T K. The amount of air expelled from the container is found to be 1.5L at -33°C and 1 atm. What is the value of temperature T K ?
 (1) 400 K (2) 720 K (3) 450 K (4) 480 K
14. The stability of +1 oxidation state increases in the sequence.
 (1) $\text{Ga} < \text{In} < \text{Al} < \text{Tl}$ (2) $\text{Al} < \text{Ga} < \text{In} < \text{Tl}$
 (3) $\text{Tl} < \text{In} < \text{Ga} < \text{Al}$ (4) $\text{In} < \text{Tl} < \text{Ga} < \text{Al}$

- 15.** The most stable conformational isomer of cis 1-Bromo-2-chloro cyclohexane is
- (1) Both chlorine and Bromine atoms at axial position.
 - (2) Bromine atom at axial position and chlorine atom at equatorial position
 - (3) Both chlorine and Bromine atoms at equatorial position
 - (4) Bromine atom at equatorial position and chlorine atom at axial position.

- 16.** Which of the following forms a positively charged sol ?
- (1) haemoglobin (2) clay (3) eosin (4) charcoal

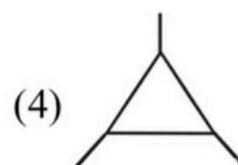
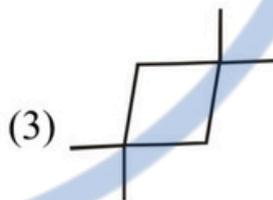
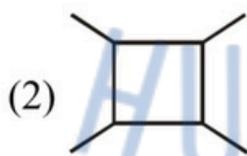
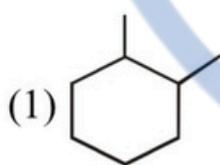
- 17.** Phosphine is prepared by the action of :
- (1) White Phosphorus and H_2SO_4 (2) White Phosphorus and NaOH
(3) White Phosphorus and H_2S (4) White Phosphorus and HNO_3

- 18.** Structural isomers of the compound with molecular formula $C_4H_{10}O$ are -
- (1) 6 (2) 7 (3) 8 (4) 9

- 19.** Which of the following is **NOT** correct?
- (1) Fertile soils are colloidal in nature in which humus acts as a protective colloid.
(2) Latex is negatively charged colloidal solution.
(3) The formation of micelles takes place only below critical micelle concentration.
(4) In chemisorption unimolecular layer forms.

- 20.** $2SO_2(g) + O_2(g) \xrightarrow{'X'} 2SO_3(g)$
- In above reaction 'X' will be :
- (1) $CuCl_2$ (2) V_2O_5 (3) Pt + Rh (4) 'C'

- 21.** Which of the following compounds can not show geometrical isomerism?



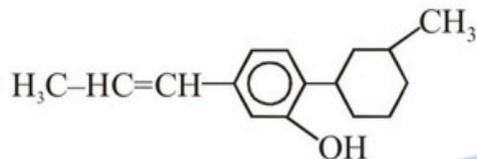
22. A sample of hard water containing $\text{Ca}^{2+}(\text{aq})$ ions, having concentration 400 ppm is passed through cation exchange resin (RH) which exchanges $\text{Ca}^{2+}(\text{aq})$ ions for $\text{H}^{+}(\text{aq})$. What is the volume of 1M NaOH required to neutralise 1L of water obtained from cation exchange resin after exchange of Ca^{2+} of hard water?

- (1) 20 mL (2) 10 mL (3) 40 mL (4) 80 mL

23. What will be the product when ammonia react with excess chlorine:

- (1) NH_4Cl (2) N_2 (3) NCl_3 (4) NaClO_3

24. How many stereogenic centers and stereoisomers are present in given compound respectively ?



- (1) 3, 8 (2) 4, 8 (3) 4, 16 (4) 3, 6

25. For a vander Waal's gas the volume of gas molecules are negligible. The molar volume of gas is 20L/mol at 300K. The compressibility factor of the gas is -

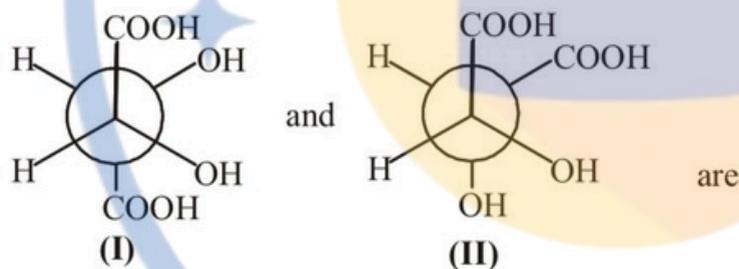
[Given : $a = 96 \text{ L}^2 \cdot \text{atm} \cdot \text{mol}^{-2}$ and $R = 0.08 \text{ L} \cdot \text{atm} \cdot \text{mol}^{-1} \cdot \text{K}^{-1}$]

- (1) 0.8 (2) 0.75 (3) 1.2 (4) 1

26. Geometry around 'Xe' in XeF_6 is :

- (1) Square bipyramidal (2) Distorted octahedral
(3) Pentagonal pyramidal (4) Square Antiprismatic

27. The structure :



- (1) Structural isomers (2) Enantiomer (3) Diastereomers (4) Identical

28. How many grams of $\text{FeC}_2\text{O}_4(\text{s})$ is required to react with 50 mL, 0.1 M $\text{KMnO}_4(\text{aq})$ in acidic medium?

- (1) 1.2g (2) 1.8 g (3) 3.6 g (4) 2.4 g

29. Which of the them is an amphoteric oxides?

- (1) CaO (2) CO_2 (3) SiO_2 (4) SnO_2

30. Choose the correct statement among the given :

- (1) Gauche form of ethane-1,2-diol is most stable
(2) Enol form of Ethanamide can show geometrical
(3) In methyl cyclohexane, methyl group lies at equatorial position than axial position.
(4) All are correct

Category-2

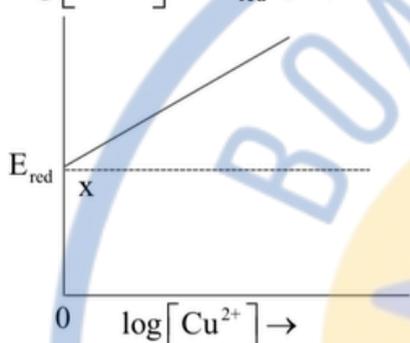
1. The vapour pressure lowering of a 0.1 M aqueous solution of non – electrolyte at 75°C is (ΔH_v° of water = 9720 cal/mol and $\text{antilog } 0.407 = 2.55$)
- (A) 0.54 torr (B) 0.78 torr
(C) 0.02 torr (D) 0.22 torr
2. The C – C single bond distance is 1.54 \AA . The minimum distance between the terminal carbons in propane is ($\sin 54^\circ 45' = 0.8136$)
- (A) Greater than 3.08 \AA (B) Equal to 3.08 \AA
(C) 2.51 \AA (D) Can't be calculated
3. A sample of aqueous solution of acetic acid (0.5 mol CH_3COOH in 10 mol of H_2O) is mixed with a sample of aqueous solution of NaOH (0.5 mol NaOH in 10 mol of H_2O). The freezing point of the solution is ($K_{f, \text{H}_2\text{O}} = 1.86$)
- (A) -5°C (B) -5.16°C
(C) 0°C (D) 5.16°C
4. Hydrogen peroxide can be prepared by the successive reactions
- $$2\text{NH}_4\text{HSO}_4 \rightarrow (\text{NH}_4)_2\text{S}_2\text{O}_8$$
- $$(\text{NH}_4)_2\text{S}_2\text{O}_8 + 2\text{H}_2\text{O} \rightarrow 2\text{NH}_4\text{HSO}_4 + \text{H}_2\text{O}_2$$
- The first is an electrolytic reaction, and the second a steam distillation. What current would have to be used in the first reaction to produce enough intermediate to yield 100 g pure H_2O_2 per hour? Assume 50% current efficiency.
- (A) 158 A (B) 315 A
(C) 102 A (D) 204 A
5. Equilibrium constant for the dissociation of $\text{Ag}(\text{NH}_2)_2^+$ into Ag^+ and NH_3 is 6×10^{-8} . Calculate E° for the following half reaction, $\text{Ag}(\text{NH}_3)_2^+ + e \rightarrow \text{Ag}(s) + 2\text{NH}_3$ ($E^\circ_{\text{Ag}^+/\text{Ag}} = 0.799\text{V}$, $\log 6 = 0.7781$)
- (A) 0.37 (B) 0.799
(C) 0.7781 (D) 0.6

Category-3

6. A student is analysing a salt in the laboratory. When he added dilute HCl to the salt solution, a gas is evolved, when the gas is exposed to a filter paper moistened with potassium iodate and starch solution, he observed blue colouration of the filter paper. Then he added BaCl_2 solution to the salt solution and observed white precipitate immediately. He found that the precipitate is soluble in dilute mineral acids. The anion of the salt is
- (A) $\text{S}_2\text{O}_3^{2-}$ (B) SO_3^{2-}
(C) CO_3^{2-} (D) HCO_3^-

7. Which of the following complexes is/are chiral?
- (A) $\text{cis} - [\text{Pt}(\text{NH}_3)_2 \text{Cl}_2]$ (B) $[\text{Zn}(\text{H}_2\text{O})_2 \text{Cl}_2]$ (tetrahedral)
(C) $[\text{Pt}(\text{C}_2\text{O}_4)_3]^{4-}$ (D) $\text{trans} - [\text{Pt}(\text{NH}_3)_4 \text{BrCl}]^2$

8. For the reaction $\text{Cu}^{2+} + 2\text{e} \rightarrow \text{Cu}$
 $\log [\text{Cu}^{2+}]$ vs. E_{red} graph can be plotted as following (At NTP)



Where $\text{OX} = 0.34 \text{ V}$ then electrode potential of the half cell of $\text{Cu}/\text{Cu}^{2+} (0.1\text{M})$ will be:

- (A) 0.3695 v (B) -0.3105 V
(C) 0.3991 V (D) -0.2809 V
9. An ideal gas expanding isothermally against the external pressure equal to zero, shows
- (A) $\Delta E = 0$ (B) $W = 0$
(C) $q = 0$ (D) $\Delta H = +\text{ve}$
10. Electrolysis of molten MgCl_2 is the final production step in the isolation of magnesium from sea water by Dow's process. Assuming that 35.6 g of Mg metal forms. Which of the following statement (s) is/are correct?
- (A) 2.96 moles of electrons are required
(B) $3.83 \times 10^5 \text{ C}$ charge is required
(C) 31.8 A of current is required for 2.5 hours
(D) 41.5 A of current is required for approximately 115 mins