

NEET Sample Paper 1 PDF for Droppers (Chemistry)

1. On treating a mixture of two alkyl halides with sodium metal in dry ether, 2-Methylpropane was obtained. The alkyl halides are;

- (1) 2-Chloropropane & Chloromethane
- (2) 2-Chloropropane & Chloroethane
- (3) Chloromethane & Chloroethane
- (4) Chloromethane & 1-Chloropropane

2. Solution of 0.1 M NH_4OH and 0.1 M NH_4Cl has pH 9.25, The pK_b of NH_4OH is;

- (1) 9.25 (2) 4.75
- (3) 3.75 (4) 8.25

3. The reducing character of hydrides of group 14 elements is;

- (1) Maximum for CH_4 and minimum for PbH_4
- (2) Maximum for CH_4 and minimum for SnH_4
- (3) Maximum for PbH_4 and minimum for SiH_4
- (4) Maximum for PbH_4 and minimum for CH_4

4. Assertion (R): Scandium and zinc are two members of first transition series which do not form coloured compounds.

Reason (R): Scandium compounds have $3d^0$ configuration in + 3 state while zinc compounds have $3d^{10}$ configuration in + 2 state due to which there is no d-d transition.

- (1) If both assertion and reason are true and reason is the correct explanation of assertion.
- (2) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (3) If assertion is true but reason is false.
- (4) If both assertion and reason are false.

5. Which of the following major product will be obtained when neopentyl alcohol is treated with conc. HCl in presence of $ZnCl_2$?

- (1) t-Butyl chloride
- (2) Isobutylene
- (3) t-Pentyl chloride
- (4) Neopentyl chloride

6. The shape of

ClO_3^- is;

- (1) Pyramidal
- (2) Tetrahedral
- (3) Triangular planar
- (4) Triangular bipyramidal

7. Denaturation of protein;

- (1) is always irreversible
- (2) disrupts the secondary and tertiary structures only
- (3) will not affect the original biological activity
- (4) none of these

8. The incorrect statement regarding an octahedral complex is;

- (1) central metal cation with d_6 configuration is diamagnetic in strong ligand field.
- (2) central metal cation with d_5 configuration has one unpaired electron in both weak and strong ligand field.
- (3) central metal cation with d_8 configuration has two unpaired electrons in weak, strong and also in mixed ligand field.



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(4) central metal cation with d4
, d5
, d6
and d7
configuration have different number of
unpaired electrons in weak and strong ligand
field.

9. The colour of light absorbed by an aqueous
solution of CuSO_4 is;

- (1) Orange-Red (2) Blue-Green
(3) Yellow (4) Violet

10. The number of spectral lines that are possible
when electrons in 7th shell in different hydrogen
atoms return to the 2nd shell is;

- (1) 12 (2) 15
(3) 14 (4) 10

11. Which of the following statements is in accordance
with the Arrhenius equation?

- (1) Rate of a reaction has no effect with increase in
temperature.
(2) Rate of a reaction increases with decrease in
activation energy.
(3) Rate constant decreases exponentially with
increase in temperature.
(4) Rate of reaction decreases with decrease in
activation.

12. Statement-1: The reciprocal of time in which 66%
of the reactant is converted to product is equal to the
rate constant of first order reaction.

Statement-2: The rate constant for first order
reaction depends on initial concentration of
reactants.

- (1) Statement I and statement II both are correct.

- (2) Statement I and statement II both are incorrect.
- (3) Statement I is true but statement II is false.
- (4) Statement I is false but statement II is true.

13. Statement-1: Carbonyl compounds take part in nucleophilic addition reactions.

Statement-2: These reactions are initiated by nucleophilic attack at the electron deficient carbon atom.

- (1) Statement I and statement II both are correct.
- (2) Statement I and statement II both are incorrect.
- (3) Statement I is true but statement II is false.
- (4) Statement I is false but statement II is true.

14. Statement-1: Fluorine molecule has bond order one.

Statement-2: The number of electrons in antibonding molecular orbitals is two less than in bonding molecular orbitals.

- (1) Statement I and statement II both are correct.
- (2) Statement I and statement II both are incorrect.
- (3) Statement I is true but statement II is false.
- (4) Statement I is false but statement II is true.

15. The synthesis of alkyl fluorides is best accomplished by:

- (1) Swarts reaction
- (2) Free radical fluorination
- (3) Finkelstein reaction
- (4) Sandmeyer reaction

16. Non-reducing sugar out of the given molecules is/are:

- (1) Maltose (2) Lactose
- (3) Sucrose (4) Both (1) and (3)

17. The oxidation state of chromium in the final product formed by the reaction between KI and acidified $K_2Cr_2O_7$ solution is;

(1) + 4 (2) + 6

(3) + 2 (4) + 3

18. Tollens' reagent is:

(1) Alkaline mercuric chloride

(2) Alkaline potassium permanganate

(3) Ammoniacal silver nitrate

(4) Ammonium citrate

19. A mixture showing negative deviation from

Raoult's law is:

(1) Hexane + Heptane

(2) Benzene + Toluene

(3) Water + Ethanol

(4) Nitric acid + Water

20.



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