

NEET 2024 Chemistry Predicted Question Paper 1

Ques.1 Find the pH of a solution containing an equal volume of 0.1 M NaOH and 0.01 M HCl.

- A. 7.0
- B. 2.0
- C. 12.65
- D. 1.04

Ques.2 "c" the specific heat capacity of a substance is given by temperature difference is given by ΔT and the heat energy is given by Q then what is the mass of the substance?

- A. $Q/c\Delta T$
- B. $c\Delta T/Q$
- C. $Qc\Delta T$
- D. $Q\Delta T$

Ques.3 Calculate the relative lowering of vapour pressure when 12g urea (Mol weight 60 g/mol) is dissolved in 90g of water.

- A. 0.011
- B. 0.11
- C. 0.038.
- D. 0.38

Ques.4 When two liquid A and B are mixed then their boiling points becomes greater than both of them. What is the nature of this solution

- A. Ideal solution
- B. Positive deviation with non ideal solution
- C. Negative deviation with non ideal solution
- D. Normal solution

Ques.5 The e.m.f and the standard e.m.f of a cell in the following reaction is 5V and 5.06V at room temperature, $\text{Ni(s)} + 2\text{Ag}^+(\text{aq}) \rightarrow \text{Ni}^{2+}(\text{aq}) + 2\text{Ag(s)}$. What is the concentration of Ag^+ ions?

- A. 0.0125 M
- B. 0.0174 M
- C. 0.0625 M
- D. 0.0314 M

Ques. 6 The number of Faradays required to produce 20g of Ca from molten CaCl_2 is

- A. 2F
- B. 1F
- C. 4F
- D. 3F

Ques.7 Decomposition of dimethyl ether at 504°C is first order having a half-life of 1570 seconds. What fraction of an initial amount of it remains after 4710 seconds?

- A. $\frac{1}{3}$
- B. $\frac{1}{6}$
- C. $\frac{1}{8}$
- D. $\frac{1}{16}$

Ques.8 The incorrect statement regarding the lanthanons is

- A. Europium shows +2 oxidation state
- B. The basicity decreases as the ionic radius decreases from Pr to Lu
- C. All the lanthanons are much more reactive than aluminium
- D. Ce (+4) solutions are widely used as oxidizing agents in volumetric analysis

Ques.9 Which of the following compounds does not undergo aldol condensation?

- A. 2-Methylpentanal
- B. Phenyl acetaldehyde
- C. 1-Phenylpropanone
- D. Benzaldehyde

Ques.10 The compound that does not yield a positive result in the iodoform test is

- A. 2-Pentanone
- B. Ethanol
- C. Ethanal
- D. 3-Pentanone