NEET Sample Paper 3 PDF for Class 12 (Chemistry)

- 1. Statement I: The solubility of AgCl will be minimum in CaCl2 aqueous solution.

 Statement II: It is due to the common ion effect of chloride.
- (1) Statement I and Statement II both are correct.
- (2) Statement I is correct, but Statement II is incorrect.
- (3) Statement I is incorrect, but Statement II is correct.
- (4) Statement I and Statement II both are incorrect.
- 2. Statement I: Carbon dioxide turns lime water milky.

Statement II: Carbon dioxide dissolved in lime water.

- (1) Statement I and Statement II both are correct.
- (2) Statement I is correct, but Statement II is incorrect.
- (3) Statement I is incorrect, but Statement II is correct.
- (4) Statement I and Statement II both are incorrect.
- 3. Statement I: Xenon compounds XeF2, XeF4, XeF6 have linear, square planar and distorted octahedral shape respectively.
 Statement II: Xenon compounds XeF2, XeF4, XeF6 have 6, 4 and 2 number of electrons respectively.
- (1) Statement I and Statement II both are correct.
- (2) Statement I is correct, but Statement II is incorrect.
- (3) Statement I is incorrect, but Statement II is

correct.

- (4) Statement I and Statement II both are incorrect.
- 4. If nickel oxide has the formula Ni0.98O, then what fraction of nickel exists as Ni3+?
- (1) 96% (2) 4%
- (3) 98% (4) 2%
- 5. Maximum number of hydrogen bonds per H2O molecule is:
- (1) 2 (2) 4
- (3) 3 (4) 1
- 6. Which of the following is not the right match?
- (1) CO2, irregular geometry.
- (2) BF3, regular geometry.
- (3) NH3, irregular geometry.
- (4) SO2, irregular geometry.
- 7. The molecule with the least dipole moment is:
- (1) CHCl3 (2) H2O
- (3) NH3 (4) CO2
- 8. Assertion: The number of radial nodes in 3s and 4p orbitals are not equal.

ver · Prepare · Achieve

Reason: The number of radial nodes in any orbital depends upon the values of 'n' & 'l' which are different for 3s and 4p orbitals.

- (1) Both Assertion (A) and Reason (R) are the true, and Reason (R) is a correct explanation of Assertion (A).
- (2) Both Assertion (A) and Reason (R) are the true, but Reason (R) is not a correct explanation of Assertion (A).
- (3) Assertion (A) is true, and Reason (R) is false.

- (4) Assertion (A) is false, and Reason (R) is true.
- 9. Assertion: In Cl2 & Br2 bond formed by overlapping of p-p orbital.

Reason: In Cl2 & Br2 bond formed by overlapping of hybrid orbitals.

- (1) Both Assertion (A) and Reason (R) are the true, and Reason (R) is a correct explanation of Assertion (A).
- (2) Both Assertion (A) and Reason (R) are the true, but Reason (R) is not a correct explanation of Assertion (A).
- (3) Assertion (A) is true, and Reason (R) is false.
- (4) Assertion (A) is false, and Reason (R) is true.
- 10. The degree of ionisation of compound depends on;
- (1) size of solute.
- (2) nature of solute.
- (3) nature of vessel.
- (4) quantity of electricity passed.
- 11. A system absorbs 500 kJ heat and performs 250 kJ work on the surroundings. The increase in internal energy of the system is;
- (1) 750 kJ (2) 250 kJ
- (3) 500 kJ (4) 1000 kJ

Atomic number of element Ununnilium is;

- (1) 101
- (2) 110
- (3) 111
- (4) 100
- 12. Bleaching action of H2O2 is due to its:

- (1) oxidising nature.
- (2) reducing nature.
- (3) acidic nature.
- (4) thermal instability.
- 13. Nitrobenzene can be prepared from benzene by using a mixture of conc. HNO3 and conc. H2SO4. In the mixture, nitric acid acts as a/an:
- (1) catalyst. (2) reducing agent.
- (3) acid. (4) base.
- 14. The oxidation state of Cr in Cr2O3 is
- (1) +3 (2) +7
- (3) 7(4) + 5
- 15. Reaction of HBr with propene in the presence of peroxide gives:
- (1) 3-bromo propane.
- (2) allyl bromide.
- (3) n-propyl bromide.
- (4) isopropyl bromide.
- 16. Mendeleev's Periodic Law is based on:
- (1) atomic number.
- (2) atomic weight.
- (3) number of neutrons.
- (4) all of these.