

Sample questions

Which compound would show optical activity?

- a) cis 1,4- Dimethylcyclohexane
- b) trans 1,4- Dimethylcyclohexane
- c) cis 1,4- Dimethylcycloheptane
- d) trans 1,4- Dimethylcycloheptane

Primary amides get converted into primary amines by:

- a) Addition
- b) Oxidation
- c) Reduction
- d) Acylation

The salt which produce blue colour in borax bead test is....

- a) CaCl_2
- b) MnSO_4
- c) MgCO_3
- d) CoCl_2

The value of the 'spin only' magnetic moment for one of the following configurations is 2.84 BM. The correct one is

- a) d^4 (in strong ligand field)
- b) d^4 (in weak ligand field)
- c) d^3 (in weak as well as in strong fields)
- d) d^5 (in strong ligand field)

Bhor's model can explain-

- a) The spectrum of hydrogen atom only
- b) Spectrum of atom or ion containing one electron only
- c) The spectrum of hydrogen molecule
- d) The solar system

Antacids that are used for treating indigestion contain

- a) potassium hydroxide
- b) sodium hydroxide
- c) magnesium carbonate
- d) magnesium hydroxide

In DNA, the complementary base of adenine is

- a) Guanine
- b) Cytosine
- c) Uracil
- d) Thymine

Lipids provide following to the cell

- a) Energy
- b) Structure
- c) Insulation
- d) All of these

The highest electrical conductivity of the following aqueous solutions is of

- a) M acetic acid
- b) 0.1M chloroacetic acid
- c) 0.1M fluoroacetic acid
- d) 0.1M difluoroacetic acid

The gas used for the formation of the plasma in an Inductively coupled plasma is

- a) Acetylene
- b) Oxygen
- c) Nitrogen
- d) Argon