

Inorganic Chemistry Interview Questions And Answers Guide.



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Inorganic Chemistry Job Interview Preparation Guide.

Question # 1

Who is the father of chemistry?

Answer:-

LAVOSIER

Because, he defined law of chemical reaction

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Question # 2

What is the inorganic chemistry?

Answer:-

Inorganic is a branch of chemistry that deals with the properties and behavior of inorganic compounds

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Question # 3

Process is FeO , Fe_2O_3 and Fe_3O_4 ?

Answer:-

Fe_2O_3

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Question # 4

Write short note on steroids, terpenes, prostaglandins and phospholipids?

Answer:-

these are the secondary metabolites and play an important role in plant defence system

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Question # 5

What are the basics of electronic spectroscopy?

Answer:-

The electronic transition between ground state and the excited state in terms of energy

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Question # 6

Why do we use sulphuric acid in the experiment to measure absorbance of $K_2Cr_2O_7$ and $KMnO_4$?

Answer:-

In case of Dichromate we use it to maintain the pH, otherwise there is a mixture of Chromate and Dichromate. They do not absorb at the same wavelength. So we cannot use Lambert-Beer's Law.

For permanganate use of sulphuric acid is not for this reason but to maintain the pH as in neutral or alkaline solution permanganate gets hydrolyzed to form manganese dioxide.

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Question # 7

What is hybridization? How can we find that which type hybridization in particular compound like in CH₄ (hy is sp³)?

Answer:-

It is intermixing of an orbital.

eg. CH₄

$$(6 \times 0) + (4 \times 1) = 0 + 4 = 4$$

according to formula its hybridisation is four

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Question # 8

Out of (CH₃)₃C⁻ and (CH₃)₂CH⁻ carboanion, which is more stable and why?

Answer:-

(CH₃)₂CH⁻ because neighbouring protons stabilise a negative charge better than neighbouring carbon. (The neighbouring C-H sigma bonds have an overlap of electron density with the lone pair in the p-orbital, which is destabilising.)

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Question # 9

Why lead acetate is used in the Limit test of Arsenic?

What role Lead Acetate plays?

Answer:-

During limit test for As, Zn & conc HCl is used. If H₂S formed the reaction with Lead Acetate gives lead sulphide. If it is not used then it reacts with mercuric bromide gives yellow stain.

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Question # 10

Explain A catalyst?

Answer:-

(a) always slows down the reaction

(b) always starts a reaction that would not have occurred at all otherwise

(c) causes changes in the rate of the reaction

(d) changes the quantities of the products formed

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Question # 11

Why sulphuric acid has more viscosity than water?

Answer:-

tensile strength of sulphuric acid is higher than water

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Question # 12

Give the IUPAC name.

i) [Co(NH₃)₅SO₄]Cl

ii) [Co(NH₃)₅Cl] SO₄

iii) [CoCl.CN.NO₂.(NH₃)₃]

Answer:-

1). PENTAAMINE SULPHATOCOBALT III CHLORIDE

2). PENTAAMINE CHLOROCOBALT III SULPHATE

3). TRIAMMINECHLORONITROCOBALT III

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Question # 13

What is thickness of the polystyrene film?

Answer:-

36 microns

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