

DIRECTORATE OF DISTANCE EDUCATION

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Assignment for M.Sc. Chemistry (Final)

अंकभार: 30%

सभी प्रश्नों के उत्तर दें।

प्रत्येक प्रश्नों के उत्तर 800 शब्दों में दें।

Paper IX

- 1. What is spectroscopy? Explain absorption and emmission spectra.
- 2. Discuss multiplet structure in ESR spectroscopy.
- 3. With the help of IR and Raman spectroscopy, how will you show that the following molecule have the sturctures as indicated:
 - (a) SO2 symmetrical and bent
 - (b) CO2 linear with a centre of symmetry
 - (c) N,O is linear without a centre of symmetry

Paper X

- 1. What are the essential and trace metals? Discuss in detail.
- 2. Describe the synthesis of ATP from ADP.
- 3. What is the mechanism of enzyme action? Discuss it.

Paper XI

- 1. What is the composition of atmosphere? Discuss it.
- 2. Describe the content of chloride sulphate, nitrate and microorganism.
- 3. What is water pollution? Enumerate some common water pollutants. How it is controlled?

Paper XIII

- 1. What is organolithium compound and what are the various application of organolithium compound?
- 2. What is oxidation? How is it different from riduction.
- 3. What are pericyclic reaction? Write different type of pericyclic reaction,

Paper XIV

- 1. Explain the monocyclic monoterpens and sesquiterpens.
- 2. Explain the detailed structure of the Testosteron
- 3. Write notes on the following:
 - (a) Nomenclature of steriods
 - (b) Stereo chemistry of steroids

Paper XV

- 1. What is Hypertension? Describe its types.
- 2. What are Antibiotic? Discuss, in detail, with the synthesis of any one antibiotic drug.
- 3. Describe different method for preparation of Azepines.

Assignment (दत्तकार्य) जमा करने की अंतिम तिथि 30.06.2022