B.R.A.Bihar University Muzaffarpur M.Phil Chemistry Session -2014-15 Assignment Questions Paper -I

Full Marks-30 किन्ही तीन प्रश्नों का जबाव दें। सभी प्रश्नों का मान बराबर है।

- 1. Discuss the objective and importance of research.
- 2. How are national and international journals ranked?
- What is the significance of following terms in computer-RAM, ROM, LAN, MAN, WAN, Primary and secondary memory?
- 4. Discuss the importance of binary system in computers.

Paper -II

- 1. Demonstrate the various postulates of wave mechanics.
- 2. Discuss the application of "Huckel Molecular Orbital" theory in 'ethylene'.
- 3. Discuss the NMR peaks for p-xylene and ethyl benzene.
- 4. Give the selection rule for electronic transitions. What are the various electronic transitions?

Paper -III

- Describe the basic theory of law energy electron diffraction (LEED), what are the applications of LEED.
- Describe photo physical pathway of a photo chemical reaction with reference to Jablonskii diagram.
- 3. Draw molecular orbital energy level diagram for metailocense and comment on their magnetic behavior.
- 4. Explain the structure and function of the following.
 - 1. Carboxypephidare 2.carbonic anhydrate 3.Rubredoxin 4.Feridoxin
- 5. Discuss Norrish type I and Norrish type II reactions.
- 6. Write note on new trends in green chemistry.
