INORGANIC CHEMISTRY –II (I- M,Sc,.)

5-MARKS

1. Define: Control and assembly of advanced materials in biology system

2. What is the function and transport of alkali and alkaline earth metals?

3. Explain the photo systems I and II light absorption.

4. Explain reaction of the alkyl cobalamine?

5. Write short notes on Co-C bond cleavage.

6. Explain electron transfer and oxygen activation.

7. Explain the Bioinorganic of quintessentially toxic metals of lead,cadmium,mercury,and aluminium.

8. Write the Platinum complex of in cancer therapy .

9. Discuss the cisplatin and its mode of action.

10. What is 18 electron rule? Explain the application and limitation?

11. How does the Explain Nitrosyl complexes?

12. Explain the Metallocene and arene complexes.

13. Explain of ligand association and dissociation?

14. Write short account oxidative addition and reductive elimination.

15. Explain reaction of coordinated ligand in organometallics.

10-MARKS

1. Briefly explain of various bio minerals

i. Calcium phosphate

ii. Calcium carbonate

iii. Amorphous silica

iv. Barium sulphate.

2. i. Characterization of alkali and alkaline earth metals

of K + , Na + , Ca 2+ and Mg 2+

ii. Regulation of bio energetic processes by the metal ions Ca 2+ and Mg 2+ .

3.Explain cytochromes, ferredoxins and rubredoxin .

4.Define model systems,mononuclear nonhemeiron enzymes.

5.Explain gold containing drugs as anti-rheumatic agentsb and their mode of action?

6.Account on the chemotheraphy with compounds of certain non-essential elements?

7. Classification based on captivity and polarity of M-C

bond , organometallic compounds of lanthanides and actinides.

8. Describe the organometallics in medicine, agriculture horticulture and industry.

9. Explain polymerization of olefins,wackerprocess .

10. Explain Hydrogenation hydroformylation and carbonyl of methanol.