

M.Sc. DEGREE EXAMINATION, EVEN SEMESTER 2021
I Year II Semester
Inorganic Chemistry - II

Max.marks :25

Answer any **FIVE** questions ($5 \times 5 = 25$) Marks

1. Classify Fe_3O_4 , Mn_3O_4 and $NiFe_2O_4$ as spinels or inverse spinels
2. Illustrate, with examples, what is meant by oxidative addition.
3. Discuss the mechanism of oxo process using $HCo(CO)_4$ as catalyst.
4. Explain photosubstitution reaction using a suitable example.
5. Differentiate between photonuclear and thermonuclear reactions.
6. Discuss how radioactive tracers are used in the diagnosis and treatment of diseases.
7. Explain with suitable examples how magnetic materials are classified