

I paper Inorganic chemistry II

Q.1 write short notes (any two)

(a) Orgel diagrams

(b) metal carbonyl

(c) metallocenes

(d) ~~metalloenes~~

Q.2 Explain optical rotatory dispersion

MCH 202

II paper organic chemistry II

Q. (1) Describe the following - (07/2)

(a) Fattermann Koch reaction

(b) Sandmeyer Reaction

Q. (2) write short notes - (any two) (08)

(a) IPso attack

(b) Perkin Reaction

(c) Nitration

MCH - 203

III paper Physical chemistry II

Q. (1) write a note on Electrokinetic - ()
phenomenon .

Q. (2) Describe collision theory for uni -
molecular reaction. (07)

Q. (3) Differentiate between physical and
chemical adsorption. — (04)

MCH - 204

Paper IV Spectroscopy II and Diffraction

Q. (1) Describe ESR spectroscopy? (7)

Q. (2) write short notes (any two)

(a) Miller indices

(b) Neutron diffraction

(c) chemical shift