

MANONMANIAM SUNDARANAR UNIVERSITY

DIRECTORATE OF DISTANCE AND CONTINUING EDUCATION

INTERNAL ASSIGNMENT

Semester III

SCHM31

Name of the course : ORGANIC SYNTHESIS AND PHOTOCHEMISTRY

1. (a) Functional Group interconversion. Example with examples.

(OR)

(b) Stereo selective and stereospecific reactions.

2. (a) FMO approach of sigma tropic rearrangements of 1,5 – hexadiene, photochemically allowed or forbidden process.

(OR)

(b) Norrish Type I & II cleavage reactions..

SCHM32

Name of the course : Coordination Chemistry-I

1. (a) Explain Jahn-Teller Distortion with examples.

(OR)

(b) Crystal Field Stabilization Energy for Octahedral and Tetrahedral complexes.

2.(a) Trans Theories (pi-bond and polarization theory)

(OR)

(b) Inner sphere and outer sphere mechanism with examples.

SCHE31

Name of the Course : PHARMOCOGNOSY AND PHYTOCHEMISTRY

1. (a) General methods of extraction and give the types

(OR)

(b) Structure Elucidation of Papavarine

2. (a) Structure Elucidation of Morphine

(OR)

(b) Isolation and synthesis of quercetin.

SCHS31

Name of the course: Forensic Chemistry

1. (a) Blood types and Characterization of Blood stains
(OR)
(b) Finger Print Detection
2. (a) Methods and procedure of DNA typing
(OR)
(b) Investigation of computer related crime.