eat No.:	Enrolment No.

PARUL UNIVERSITY **FACULY OF PHARMACY** M.Pharm. Winter 2022 - 23 Examination Semester: 1 Date: 20/03/2023 Subject Code: MPC 104T Time: 10:00am to10L00pm **Subject Name: Chemistry of Natural Products Total Marks: 75 Instructions:** 1. Figures to the right indicate maximum marks. 2. Make suitable assumptions wherever necessary. Q.1 Essay Type Questions. (any 2 out of 3) (15 Marks Each) (30)Elucidate the structure of Reserpine 2. A) Describe Erythromycin as lead for generation of new macrolide antibiotics. B) Add a note on structural elucidation of Menthol along with its synthesis 3. A) Discuss in detail oligonucleotide therapy. B) Give the structural characterization of Morphine using IR, 1HNMR and MS. Q.2 Short Essay Type Questions. (any 5 out of 6) (5 Marks Each) (25)Discuss anticancer drugs as lead for development of new pharmaceutical. Write short note on nomenclature of steroids Write short note on chemistry and physiological significance of Vitamin B2 Explain the active constituents of Pterocarpus marsupium used in diabetic therapy Explain structural characterization of Quercetin using IR and 1HNMR 6. Discuss the structure elucidation of Ephedrine. Q.3 Short Answers. (2 Marks Each) (20)Discuss the SAR of Lovastatin 2. Add a note on morphine antagonist Write any one method used for degradation of alkaloid with example 4. Explain the SAR of estrogen Discuss isolation of flavonoids Give the physiological significance of Vitamin A

Write the reaction upon oxidation of Citral

Write short note on hybridoma technology

10. Explain the functional group of Camphor using IR

9. Explain the SAR of Curcumin