**M. Pharm 1st Semester Examination**

**Subject- Chemistry of Natural Products (MPCI04T)**

**Full Marks- 75 Time – 3 hours**

**Answer any five questions:**

**1. Classify alkaloids. Give an account of general methods used for degerming the structure of alkaloids. Explain stereochemistry of morphine. (15)**

**2. Write the chemistry and medical importance of β - lactam**

**antibiotics. (15)**

**3. Write a brief note on. (15)**

**(a) Sapogenin**

**(b) Cardiac glycosides**

**(c) Sterols**

**4. Explain the stereochemical aspects and chemistry of. (15)**

**(a) Testosterone**

**(b) Progesterone**

**5. Give a brief note on r DNA technology. Write its role in drug**

**discovery. (15)**

**6. Explain the physiological significance and chemistry of vitamin-A and folic acid. (15)**

**7. Write the application and role of 1HNR and 13 CNMR in structural determination of quercetin. (15)**