**B.Pharm 5th Semester Examination**

**Subject- Medicinal Chemistry-II (BP501T)**

**Full mark- 75 Time – 3 hours**

**Answer all the questions.**

**1. Answer all (10x2=20)**

**(a) Write down the structure and uses of Nifedipine.**

**(b) Name two plant products used in treatment of cancer.**

**(c) Write two thiazolidinone derivatives used in hyperglycemia.**

**(d) What loop Diuretic. Mention its chemical name.**

**(e) Name two drugs used in erective dysfunction.**

**(f) Write down the structure and uses of Methimazole.**

**(g) Define anticoagulants with examples.**

**(h) Write the structure and uses of furosemide.**

**(i) Give few examples of H1 -Antagonist.**

**(j) Give the structure and uses of 5- fluorouracil.**

**2. Answer any two out of three. (2 x 10=20)**

**(i) Discuss the nomenclatures and stereochemistry of steroids with suitable example.**

**(II) Classify antihistamines with suitable examples. Write the SAR of H1 -Receptor blocker. Mention the synthesis and uses of Diphenhydramine.**

**(iii) Define and classify anaesthetics. Discuss the SAR of local anaesthetics. Outline the synthesis and uses of procaine.**

**3. Answer any Seven out of nine Questions. (7x5=35)**

**(i) Define and classify antihypertensive agents. Write down the synthesis and uses of methyl dopa.**

**(ii) Write a brief note on congestive heart failure. Mention its treatment.**

**(iii) Write a short note on alkylating agents.**

**(iv) Draw the structure of lovastatin Digoxin and Hydrochlorothiazide with their uses.**

**(v) Write the synthesis and uses of Lidocane and sotalol.**

**(vi) Define anticoagulants. Write down the synthesis and mechanism of action of warfarin.**

**(vii) Classify hypoglycemic agents with suitable examples. Outline the synthesis of Tolbutamide**

**(viii) Define antiarrhythmic agents. Write down the synthesis and uses of Disopyramide phosphate.**

**(ix) Write the structure and uses of acetazolamide.**