

Roll No

RE-APPEAR, EXAMINATION
DEC, 2024

Course Code -BP501T
Course Name-MEDICINAL CHEMISTRY 2
Programme Name: B. Pharmacy



Maximum Marks : 75

Time: 3Hrs

Instructions: The question paper consists of 32 questions divided into three-part A, B and C. Attempt all questions from section-A comprises 20 MCQs, Any seven questions out of Nine from section-B and Any two questions out of three from section-C

Section-A (20 X 1 = 20 Marks)

1	Which of the following is a osmotic diuretic. a.Glycerol b. mannitol c. Polyethylene glycol d. all	CO1
2	Which of the following is a plant based anticancer drug. a. Vinblastin b. thiotepa c. mitotane d. none	CO1
3	Which of the following is a anti-hyperlipidemic drug. a.Captopril b. Clofibrate c.spironolactone d. none	CO1
4	Which of the following metal is present in Cisplatin . a Cobalt b. Platinum c. Gold d .none	CO1
5	Which of the following is a Potassium Sparing Diuretic . a.Amloride b. Hydralazine c. Ranitidine d. none	CO1
6	Which of the following is a Anti arrhythmic drug . a.Spironolactone b. cetirizine c. quinidine d. none.	CO1
7	MOA of warfarin is it inhibits : a.folate enzyme b. epoxide reductase c. triazole reductase d all	CO1
8	Lovastatin acts by inhibiting: a.peptidase b. synthetase enzyme c. HMG CoA reductase d .none	CO1
9	Which of the following drug has a phenothiazine type nucleus .	CO1

	a.Mercaptopurine b. Daunorubicin c. Promethazine d. Diphenhydramine	
10	Astemizole is used in : a.Allergy b. tuberculosis c. cancer d. diuretic	CO1
11	Which of the following nucleus is present in Famotidine . a.Thiazole b. Furan c. Thiophene d. none.	CO1
12	Which of the following nucleus is present in Acetazolamide . a.Thiazole b. imidazole c. pyrazole d. pyrazine	CO1
13	Thiotepa is a : a.Alkylating agent b. antimetabolite c. antibiotic d. none	CO1
14	Nitroglycerin is a : a. Anti- anginal drug b. diuretic c. anti histaminic d. none	CO1
15	Methotrexate is a : a. Competitive antagonist b. competitive agonist c. both d. none	CO1
16	Which of the following antibiotic is used as a anti-cancer drug . a.Penicillin b. Erythromycin c. Daunorubicin d. none .	CO1
17	Reserpine is a : a.Alkaloid b. Tannin c. Glycoside d. Flavonoid	CO2
18	The ring present in Amiloride is : a.Pyrrole b. imidazole c. Pyrazine d. Pyridine	CO3
19	Which of the following is a Loop Diuretic . a. Furosemide b. Chlorthiazide c. Mannitol d. Triamterene	CO1
20	Which of the following nucleus is present in rabeprazole . a. Imidazole b. Pyrazole c. Pyrrole d. none	CO1

Section B (7 X 5 = 35 Marks)

1	Write a short note on Calcium channel blockers with structures of Verapamil , Diltiazem .	CO1
2	Write a detail account on Anti-Hyperlipidemic agents. Write its MOA . Draw the structures of Clofibrate and Lovastatin .	CO1
3	Draw the structures of Sildenafil and Tadalafil . Write the Mechanism of Action of it.	CO1
4	Classify Antimetabolites. Write the Mechanism of Action of Methotrexate.	CO1
5	Classify Anti-Hypertensive Agents. Draw the structures of Captopril and Clonidine . Write the Mechanism of Action of both.	CO1
6	What are local Anaesthetics . Write the SAR of it .	CO1 and 3
7	What is Congestive Heart Failure . Draw the structures of Digoxin and Digitoxin. Write the Mechanism Of Action of it .	CO1
8	Write the Mechanism of Action of Proton Pump Inhibitors .Draw the structures of Rabeprazole and Lansoprazole .	CO1
9	Write a short note on Anti- Diabetic Agents with special focus on Insulin and Sulfonylureas .	CO1

Section C (2 X 10 = 20 Marks)

1	Write the synthesis of Acetazolamide , Furosemide , Benzocaine , Tolbutamide.	CO4
2	Classify Antihistaminics . Write a detail account of Histaminic receptors . Write the SAR of it .	CO1, 3
3	Classify Diuretics . Draw the structures of Acetazolamide , Bumetanide, Mannitol , Triamterene .	CO1