

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2026
(Sixth Semester)

Branch – CHEMISTRY

MAJOR ELECTIVE COURSE – II : PHARMACEUTICAL CHEMISTRY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Chemotherapy means treatment using (i)Surgery (ii) Chemicals (iii)Exercise (iv) Radiation	K1	CO1
	2	Cholesterol is normally found in (i)Urine (ii)Sweat (iii)Saliva (iv)Blood	K2	CO1
2	3	Paracetamol is mainly a (i)Antibiotic (ii)Antipyretic (iii)Antifungal (iv)Sedative	K1	CO2
	4	Opioid analgesics act mainly on (i)Kidney (ii) CNS (iii) Liver (iv)Heart	K2	CO2
3	5	Chloroform is used as (i)Antibiotic (ii)Anesthetic (iii)Antipyretic (iv)Analgesic	K1	CO3
	6	Tranquilizers are drugs used to (i) Increase BP (ii) Reduce anxiety (iii) Cause infection (iv) Reduce fever	K2	CO3
4	7	Ferrous sulphate is used in (i)Anemia (ii)Asthma (iii)Epilepsy (iv)Jaundice	K1	CO4
	8	Iodine deficiency causes (i)Diabetes (ii)Goitre (iii)Malaria (iv)Asthma	K2	CO4
5	9	The liquid portion of blood is called (i)Serum (ii)Plasma (iii)Lymph (iv) Pus	K1	CO5
	10	An example for Cardiac glycoside is (i)Digoxin (ii)Paracetamol (iii)Penicillin (iv)Diazepam	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain various routes of drug administration with examples.	K2	CO1
		(OR)		
	11.b.	Describe botulism due to food poisoning and its first aid measures.		
2	12.a.	Define antibiotics and classify them with examples.	K2	CO2
		(OR)		
	12.b.	Write the uses and mechanism of action of streptomycin.		
3	13.a.	Give an account on phenolic compounds and their uses.	K3	CO2
		(OR)		
	13.b.	Describe the synthesis and mode of action of benzocaine.		
4	14.a.	Write the preparation and uses of alum and aluminium hydroxide gel.	K3	CO3
		(OR)		
	14.b.	Explain milk of magnesia and its therapeutic uses.		
5	15.a.	Describe the mechanism of blood clotting.	K4	CO4
		(OR)		
	15.b.	Classify cardiovascular drugs with suitable examples.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Explain in detail the causes, symptoms and treatment of diabetes and tuberculosis.	K2	CO1
2	17	Write detailed note on antifungal antibiotics.	K2	CO2
3	18	Describe the role of anti- neoplastic agents in cancer treatment.	K4	CO2
4	19	Enumerate the biological role of inorganic compounds of sodium, calcium and zinc.	K3	CO3
5	20	Discuss blood grouping, Rh factor and their medical significance.	K3	CO4

Z-Z-Z

END