

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025  
(Sixth Semester)

Branch – CHEMISTRY

**MAJOR ELECTIVE COURSE- II: PHARMACEUTICAL CHEMISTRY**

Time: Three Hours

Maximum: 50 Marks

**SECTION-A (5 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- 1 The study of pharmacological action is called  
(i) pharmacodynamics (ii) pharmacokinetics  
(iii) molecular pharmacology (iv) pharmaceutical chemistry
- 2 Chloramphenicol is also known as  
(i) tetracyclin (ii) streptomyces venezulae  
(iii) chloromycetin (iv) penicillin
- 3 Which of the following is not an anaesthetic?  
(i) chloroprene (ii) chloroform  
(iii) halothane (iv) vinyl ether
- 4 Ferrous sulphate is used as  
(i) antacid (ii) antiseptic  
(iii) haematinic (iv) antiemetic
- 5 Which of the following is a cardiovascular drug?  
(i) terramycin (ii) steptomycin  
(iii) methadone (iv) digitoxin

**SECTION - B (15 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 3 = 15)

- 6 a State the following, i) Toxicology ii) Chemotherapy  
OR  
b Interpret the diagnostic test for sugar in urine.
- 7 a Describe the structure and uses of paracetamol.  
OR  
b State the antipyretics and analgesics.
- 8 a Explain about the cationic surfactants.  
OR  
b Summarize the uses of anti-neoplastic drugs.
- 9 a How is milk of magnesia prepared?  
OR  
b Organize the biological role of zinc compound.

Cont...

10 a Summarize the functions of plasma protein.

OR

b Examine the composition of blood.

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11 a Outline the causes, symptoms and first aid for botulism.

OR

b Discuss the causes, symptoms and drugs used in the treatment of asthma.

12 a Discuss the structure and uses of penicillin, streptomycin and tetracycline.

OR

b Examine the mode action, uses of sulphanilamide and sulphathiazole.

13 a Distinguish between the antiseptic and disinfectants.

OR

b Highlight the recent developments in modern cancer chemotherapy.

14 a Elucidate the preparation and uses of alum and phosphoric acid.

OR

b List out the biological role of potassium and calcium.

15 a Point out the functions following,

i) Antiarrhythmic agents ii) Antihypertensive agents

OR

b Elaborate the concept of blood grouping and Rh factor.

Z-Z-Z

END