

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024  
(Sixth Semester)

Branch – CHEMISTRY

DISCIPLINE SPECIFIC ELECTIVE – 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)

- Which one of the following diseases is caused by a protozoan?  
i) Cholera                      ii) Malaria                      iii) Tuberculosis                      iv) Typhoid
- Indicate the following is not a bacteriostatic antibiotic.  
i) Tetracyclines                      ii) Sulfonamides  
iii) Cephalosporins                      iv) All of the above
- Which type of drug is known to relieve from mental stress and give mental peace?  
i) Analgesic                      ii) Tranquilizers                      iii) Antihistamine                      iv) Diuretic
- Identify the following metal helps to transmit nerve signals.  
i) Hydrogen                      ii) Potassium                      iii) Sodium                      iv) Lithium
- What is the drug used for the cardiovascular system?  
i) Ibrufen                      ii) Ofloxacin                      iii) Captopril                      iv) Paracetamol

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- a Outline the routes of administration of drugs.  
OR  
b How will you calculate the sugar in urine?
- a Sketch out the structure of penicillin. Outline the therapeutic uses of penicillin.  
OR  
b Describe the antipyretics.
- a Explain the local and intravenous anesthetics.  
OR  
b Classify the anti-neoplastic agents.
- a Bring out the medicinally important compounds containing Aluminium.  
OR  
b Summarise the medicinally important iron compounds.
- a Classify the cardiovascular drugs.  
OR  
b Narrate the blood pressure.

Cont...

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. a Enumerate the water borne diseases.  
OR  
b Analyze the diabetes.
12. a Discuss about the analgesics.  
OR  
b Examine the mode of action of sulphonamide drugs.
13. a Highlight the recent developments in modern cancer chemotherapy.  
OR  
b Elucidate the following sedatives.  
(i) Barbiturates (ii) Benzodiazepine
14. a Discuss the following medicinally important inorganic compounds.  
(i) Arsenic compounds: (ii) Phosphorus compounds:  
OR  
b Analyze the biological role of sodium, potassium and their compounds.
15. a Examine the composition of blood, grouping and *Rh* factor.  
OR  
b Classify the Antihypertensive agents.

Z-Z-Z

END