

Faculty of Pharmacy

End Semester Examination May 2025

PY3CO16 Pharmacology -I

Programme	:	B. Pharm.	Branch/Specialisation	:	-
Duration	:	3 hours	Maximum Marks	:	75

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary.
 Notations and symbols have their usual meaning.

Section 1 (Answer all question(s))

Marks CO BL
 2 1 1

Q1. Define the term Pharmacokinetics.

Rubric	Marks
DEFINE-- 2 MARKS	2

Q2. Define Bioavailability and write its significance.

2 1 1

Rubric	Marks
Bioavailability -1 marks significance.-1 marks	2

Q3. Define apparent volume of distribution.

2 2 1

Rubric	Marks
DEFINE-- 2 MARKS	2

Q4. Define receptor. Classify them.

2 2 1

Rubric	Marks
DEFINE-- 1 MARKS classification 1 marks	2

Q5. Write any two functions of ANS.

2 3 1

Rubric	Marks
Two functions of ANS	2

Q6. Name any two local anesthetics.

2 3 1

Rubric	Marks
Any Two Names	2

Q7. Differentiate between sedatives and hypnotics.

2 4 1

Rubric	Marks
2 DIFFERENCE: 2 MARKS	2

Q8. Write extended form of GABA.

2 4 1

Rubric	Marks
EXTENDED FORM 2 MARKS	2

Q9. Name two CNS stimulants.

2 5 1

Rubric	Marks
two CNS stimulants. 1 MARKS EACH	2

Q10. What are nootropics?

2 5 1

Rubric	Marks
DEFINE 2 MARKS	2

Section 2 (Answer any 2 question(s))

Marks CO BL

Q11. Write different factors governing the choice of route of drug administration. Describe the different routes of drug administration and their advantages and disadvantages. 10 1 1

Rubric	Marks
Factors governing the choice of route of drug administration 3 MARKS	10
different routes of drug administration 5 MARKS advantages and disadvantages.2 MARKS EACH	

Q12. Elaborate the term drug discovery and clinical evaluation of new drug,

10 2 1

Rubric	Marks
Drug discovery: 5 Marks	10
Clinical evaluation:5 marks	

Q13. (a) Explain G-protein coupled receptors mediated mechanism of drug action.

10 2 1

(b) Write a note on plasma protein and its significance.

Rubric	Marks
G-PROTEIN COUPLED RECEPTORS MECHANISM OF DRUG ACTION. 5 MARKS	5
PLASMA PROTEIN 2 MARKS ITS SIGNIFICANCE. 3 MARKS	5

Section 3 (Answer any 2 question(s))

Marks CO BL

Q14. Write the differences in centrally acting muscle relaxants and peripherally acting muscle relaxants.

5 3 1

Rubric	Marks
5 DIFFERENCES 1 MARKS EACH	5

Q15. Write a note on drugs used in Myasthenia Gravis.

5 3 1

Rubric	Marks
DRUGS USED IN MYASTHENIA GRAVIS 5 MARKS	5

Q16. Write the 5 differences in pharmacological actions of Anti-cholinesterase and Anticholinergic drugs.

5 3 1

Rubric	Marks
EACH DIFFERENCE CARRY 1 MARK (5 DIFFERENCE)	5

Section 4 (Answer any 2 question(s))

Marks CO BL

Q17. Write a note on antipsychotic drug.

5 4 1

Rubric	Marks
NOTE 5 MARKS	5

Q18. Define anti-epileptic drug. Classify them and write general mode of action.

5 4 1

Rubric	Marks
ANTI-EPILEPTIC DRUG, 1.5 MARKS	5
CLASSIFY THEM 1.5 MARKS	
GENERAL MODE OF ACTION. 2 MARKS	

Q19. Write the pharmacological actions of Tricyclic antidepressants.

5 4 1

Rubric	Marks
Pharmacological actions of Tricyclic antidepressants. 5 MARKS	5

Section 5 (Answer all question(s))

Marks CO BL

Q20. Write the mechanism of action, adverse effects and therapeutic uses of Levodopa.

5 5 1

Rubric	Marks
mechanism of action, 1.5 MARKS	5
adverse effects 1.5 MARKS	
therapeutic uses of Levodopa. 2 MARKS	

Q21. Discuss about drug addiction, drug abuse, tolerance, and dependence.

5 5 1

Rubric	Marks
DRUG ADDICTION, 1.5 MARKS	5
DRUG ABUSE, 1.5 MARKS	
TOLERANCE AND DEPENDENCE. 2 MARKS	

Q22. Write the different stages of anesthesia.

5 5 2

Rubric	Marks
different stages 5 MARKS	5
