

III/VI PHARM - D DEGREE EXAMINATIONS, JULY - 2022**Third Year****MEDICINAL CHEMISTRY**Time : **Three Hours**Maximum : **70 Marks****Answer any FIVE Questions.****5x14 = 70 M****All Questions carry equal marks**

1. a) Enumerate various electronic and solubility parameters in QSAR.
b) Describe various approaches of prodrug design with special emphasis on their applications.
2. a) Classify Pencillins and enumerate the mechanism of action and SAR of Pencillins.
b) Write the structures of any four anti viral agents and give their medicinal uses.
3. a) Define and classify Antihypertensive agents. Discuss the mechanism of action and SAR of ACE inhibitors.
b) Write the structure, synthesis and mechanism of action of Warfarin.
4. Write a note on
 - a) Antifungal antibiotics.
 - b) Antitubercular agents.
5. a) Classify Sulphonamides and discuss the SAR of Sulphonamides.
b) Write the classification of antimalarial drugs and outline synthesis of any one antimalarial agent.
c) Write the structures and therapeutic benefits of any two antithyroid drugs.
6. a) Give an account on alkylating agents and Antimetabolites used as antineoplastic agents.
b) Classify Diagnostic agents with examples.

7. Write a note on
- Oral hypoglycemic agents.
 - Adrenocorticoids.
8. Write the structure, IUPAC name and medicinal uses of
- Testosterone.
 - Oestrone.
 - Furosemide.
 - Cefazolin.
 - Chlorthiazide.
 - Spiranolactone.
 - Trimethoprim.



III/VI Pharma.D (Regular) DEGREE EXAMINATIONS, APRIL-2019**Third Year****PHARMA-D****MEDICINAL CHEMISTRY****Time: Three Hours****Maximum marks:70****Answer any FIVE questions.****All questions carry equal marks.****5X14=70M**

1. Write short notes on
 - a) Pro drugs
 - b) anti-sense therapeutics
2. a) Classify anti TB agents with examples. Discuss the rationale behind multidrug therapy for TB. Outline the synthesis of INH.
b) Write in brief on urinary tract anti-infectives.
3. Write the structure, synthesis and uses of
 - a) Fluconazole
 - b) Nifedepine
 - c) Chlorthiazide
4. What is diabetes? Classify antidiabetic agents with examples. Write SAR, MOA and uses of sulfonylureas. Outline synthesis of glipizide.
5. Write short notes on
 - a) Antifungal antibiotics
 - b) Sex hormones
6. Write structure, IUPAC name, MOA and uses of
 - a) Pyrazinamide
 - b) Mechlorethamine
 - c) Chloroquine
 - d) Furazolidone
7. Write short notes on
 - a) Acid resistant penicillins
 - b) Antithyroid drugs
8. With a neat scheme discuss the mechanisms involved in blood pressure. Identify the targets for antihypertensive drugs. Explain how diuretics are used as antihypertensives. Write synthesis and uses of propranolol.

Total No. of Questions :08]

P.D 3.5

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III/VI PHARMA-D (Regular) DEGREE EXAMINATIONS, April-2018
Third Year
PHARMA-D
MEDICINAL CHEMISTRY

Time: Three Hours

Maximum marks:70

SECTION-A

Answer any FIVE Questions

5X14=70M

All Questions carry equal marks

1. Write short notes on
 - a) Prodrugs
 - b) Ligand based drug design
2. Write in brief on antitubercular agents. Explain why multidrug therapy is suggested for TB treatment?
3. Write the structure, IUPAC name, MOA and uses of
 - a) ketoconazole
 - b) acyclovir
 - c) pyrazinamide
4. Write short notes on
 - a) Antimetabolites as anticancer agents
 - b) Aminoglycoside antibiotics
5. Write synthesis and clinical applications of
 - a) Busulfan
 - b) Nifedepine
 - c) lidocaine
6.
 - a) Define and classify anti arrhythmic agents. Explain the MOA and uses of diltiazem.
 - b) Write a note on local antithyroid drugs.
7. What are diuretics? Classify them with examples. Write in detail on MOA, SAR and clinical applications of thiazide diuretics. Add a note on rational in use of diuretics for management of blood pressure.
8. What are steroidal hormones? Write in detail on female sex hormones.

III/VI PHARMA.D (Regular) DEGREE EXAMINATIONS, JULY-2017

THIRD YEAR

Paper IV- MEDICINAL CHEMISTRY

Time: Three Hours

Maximum marks:70

Answer any FIVE questions.

All questions carry equal marks.

5X14=70M

1. a) What is Rational drug design? Explain its significance.
b) Write in brief on combinatorial chemistry.
2. Write the structure, IUPAC name, MOA and clinical uses of
a) Fluconazole b) INH c) Metronidazole d) Amantadine
3. a) Classify sulfonamide antibacterials with examples.
b) Write synthesis, mechanism of action and uses of Sulfapyridine and Trimethoprim
4. Write short notes on
a) SAR of β -lactam antibiotics
b) Antimalarial natural products
5. Write in brief on
a) HMG CoA reductase inhibitors
b) Anticoagulants
6. a) What are α -adrenergic blockers? Write SAR and clinical significance of these agents.
b) Write a note on preservatives.
7. a) What are diagnostic agents? Write in brief on radio contrast agents used for GIT
b) Write a note on PPAR γ agonists.
8. Write the structure, MOA and uses of
a) Progesterone
b) Betamethasone
c) Furosemide

III/VI Pharm.D (Regular) DEGREE EXAMINATIONS, JULY/AUG-2016

Paper IV- MEDICINAL CHEMISTRY

Time: Three Hours

Maximum marks:70

Answer any FIVE questions.

All questions carry equal marks.

1. a) Write in brief on parameters used for QSAR analysis.
b) Differentiate traditional and rational drug discovery
2. a) What are preservatives? Give two examples. Explain their significance in pharmacy.
b) Write a detailed note on anti-AIDS drugs.
3. Write the structure, IUPAC name, MOA and uses of
a) Clotrimazole b) Pyrazinamide c) Diethylcarbamazine
4. Write short notes on
a) Anticancer natural products b) Drugs used for urinary tract infections
5. Write synthesis and clinical applications of
a) Ampicillin b) Propranolol c) Sulfamethoxazole
6. a) Define and classify anti angina agents. Explain the MOA and uses of clonidine.
b) Write a note on local antiinfectives.
7. a) Write short notes on viral entry inhibitors
b) Explain the role of cholesterol absorption inhibitors in the management of hyperlipidaemia.
8. What are glucocorticoids? Write in detail on classification, SAR, MOA and clinical applications of prednisolone analogues.