

Programme	B. Pharmacy	
Semester	6 th	ASBASJSM COP BELA
Subject	Medicinal Chemistry-III	
Subject Code	BP601T	21 JUN 2022
Paper ID	77986	
Time	3Hours	AN AUTONOMOUS COLLEGE
Maximum Marks	75	

Instructions to Candidates: No supplementary/continuation sheet will be issued to the candidates. Answer the questions precisely.

*Section A consists of Ten parts of 2 marks each (Objective Type); Attempt **ALL**.

Section B consists of Three questions carrying 10 marks each (Long Answer); attempt any **TWO.

*** Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.

Section A

(10 X 2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	Give structure and uses of Sulfamethoxazole.
ii.	Give significance of Partition coefficient in drug design.
iii.	Give synthesis of Diethylcarbamazine citrate.
iv.	Give Structure and uses of Ciproflaxacin.
v.	Give structure of Streptomycin.
vi.	Classify UTI's.
vii.	Define Lead.
viii.	Write Hansch equation.
ix.	Give Structure and uses of Dapsone.
x.	What is Pharmacophore?

Section B

(2 X 10 = 20)

2.	Define and classify Antimalarial agents with suitable examples. Discuss SAR of quinolines as antimalarial agents.
3.	Write a note on Reverse transcriptase inhibitors as antiviral agents. Give synthesis of Acyclovir.
4.	Define and classify Anti Protozoal agents. Give synthesis and MOA of Metronidazole.

Section C

(7 X 5 = 35)

5.	Give short note on Folate reductase inhibitors and MOA of Trimethoprim.
6.	Explain Combinatorial Chemistry.
7.	Explain SAR of Sulfonamides.
8.	Give synthesis, MOA and uses of Miconazole.
9.	What is Docking analysis? Describe its advantage over other CADD techniques.
10.	Write short note on Aminoglycosides as antibiotics.
11.	What do you mean by Anthelmintics? Give their chemical structures.
12.	Give synthesis, MOA and uses of Isoniazid.
13.	What is Prodrug? Elaborate basic concepts and application of prodrug design.

Note: Disclosure of identity by writing mobile number or making request for passing on any page of answer-sheet will lead to UMC against the candidate.

Roll Number ----- (Total Number of Questions 13) (Total number of Printed Pages 01)

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Section A

(10 X 2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	Classify Cephalosporin's.
ii.	What are Aminoglycosides?
iii.	Give the structure of Streptomycin.
iv.	What is Docking?
v.	What are uses of Ciprofloxacin?
vi.	Give structure of Sulfasalazine.
vii.	What are uses of Econazole?
viii.	What are antifungal agents?
ix.	Give structure of Amantadine.
x.	Define Prodrug-design.

Section B

(2 X 10 = 20)

2.	Explain SAR of Aminoglycosides & Tetracycline.
3.	Give applications of Prodrug.
4.	Explain antiviral agents.

Section C

(7 X 5 = 35)

5.	Explain macrolides antibiotics in detail by giving suitable examples.
6.	Give classifications & etiology of Antimalarial agents
7.	Explain stereochemistry of penicillin & cephalosporins
8.	Classify Anti-tubercular agents. Give synthesis of Isoniazid.
9.	Give synthesis of Miconazole & Acyclovir.
10.	Give synthesis of Trimethoprim & Sulfacetamide.
11.	Give uses and mechanism of action of urinary tract-infective agents.
12.	Give uses & synthesis of Metronidazole.
13.	Write a short note on Combinatorial Chemistry.

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Total No. of Pages : 02

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Roll No.

Total No. of Questions : 10

B.Pharma (2012 to 2016) (Sem.-6)
PHARMACEUTICAL CHEMISTRY-VI
(Medicinal Chemistry-I)
Subject Code : BPHM-601
M.Code : 71033

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTION TO CANDIDATES :

INSTRUCTION TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.

2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A

1. Answer briefly :

- (a) Define the term bioisosterism.
- (b) What is meant by lead optimization?
- (c) Write the chemical structure and uses of Salbutamol.
- (d) What is catecholamine?
- (e) Explain cholinergic.
- (f) What are anticholinesterases?
- (g) Give chemical structure and uses of Pyridostigmine Bromide.
- (h) Outline the synthesis of Apomorphine.
- (i) What are antispasmodic drugs?
- (j) Outline the synthesis of Succinylcholine chloride.
- (k) What are eicosanoids?

SECTION-B

2. Discuss physicochemical aspects of drugs in relation to biological activity.
3. Write a short note on conventional methods of drug design.
4. What are adrenergic drugs? Discuss their Structure Activity Relationship.
5. What is acetylcholine? Write short note on neostigmine bromide.
6. Write a short note on Antiulcer drugs.

SECTION-C

7. Discuss in details the drug receptor interactions. What are fat soluble vitamins?
8. Give detailed account on nomenclature and biosynthesis of prostaglandins.
9. Discuss mode of action of antihistamines. Write in detail about chlorpheniramine.
10. What are Non-steroidal Anti-inflammatory agents? Discuss phenylbutazone in detail.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.