

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Supplementary End Semester Examination – Winter 2023

Date : 30/12/2023

Course : B. Pharmacy

Subject Name : Medicinal Chemistry III

Max Marks : 75

Sem: VI

Subject Code: BP601T

Duration : 3 Hr.

Instructions:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

D. Pharma University Exam Papers | B. Pharma University Exam Papers | GPAT, NIPER, Pharmacist, Drug Inspector Exam Papers | Previous Year Exam Papers | Latest Pharma Job | Pharma Colleges | Pharma News | Pharma Quiz

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Q. 1. Objective Type Questions (Answer all the questions) (10 x 2) = 20

- i) Draw the structure of two tetracyclines.
- ii) Outline synthesis of chloroquine.
- iii) Enlist the physicochemical parameters used in QSAR.
- iv) What is the mechanism of action of isoniazid?
- v) What are the antimalarial derived from natural source?
- vi) Draw any two structures from quinolone.
- vii) Write examples the antifungal antibiotics.
- viii) Write down mechanism of action of metronidazole.
- ix) What is the category of Thiabendazole, Amodiaquine?
- x) Enlist applications of combinatorial chemistry

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Q. 2. Long Answers (Answer 2 out of 3) (2 x 10) = 20

- i) Write in detail about classification of antibiotics depending on its chemical structure. Give emphasis on β -lactum antibiotics mechanism of action, examples.
- ii) Give detailed account on sulfonamides and sulfones with its nomenclature, mechanism of action, spectrum.
- iii) What is drug design? What are the various approaches used in drug designing detail?

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Q. 3. Short Answers (Answer 7 out of 9)

(7 x 5) = 35

- i) Write a note on combinatorial chemistry.
- ii) Discuss about benzimidazole derivatives as the antiprotozoal?
- iii) Give emphasis on reverse transcriptase inhibitor.
- iv) Write a note on agents used as urinary tract anti-infective.
- v) Enlighten aminoglycoside antibiotics.
- vi) Draw the synthesis of: Chloramphenicol and Para Amino Salicylic Acid.
- vii) Explain the basic concept of prodrugs and its applications.
- viii) Write a note on chemical classification of antimalarial agents.
- ix) What are synthetic antitubercular agents?

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