M. PHARM. (PHARMACEUTICAL CHEMISTRY) SEM-I (CBCS- 2019 COURSE): WINTER: 2021 SUBJECT: ADVANCED MEDICINAL CHEMISTRY

Day: Wednesday Time: 10:00 AM-01:00 PM
Date: 17-11-2021 Max. Marks: 75

Pate: 17-11-2021 Max. Marks: 75 W-20727-2021

N.B.:

- 1) Attempt ANY FIVE questions.
- 2) Figures to the right indicate FULL marks.
- Q.1 a) Brief out on the identification, validation and diversity of biological targets in drug discovery. (10)
 - b) Discuss various forces involved in drug receptor complex formation. (05)
- Q.2 a) What are the driving force for the design of peptidomimetics? Discuss (10) modification of peptide backbone on the basis of amino acid to peptidomimetic design.
 - b) Explain with examples prodrugs to improve physicochemical and (05) pharmacokinetic properties of drugs.
- Q.3 a) What are the causes of drug resistance? Explain the strategies to combat the (07) resistance in anticancer therapies.
 - b) Discuss in brief about Chemistry, SAR & MOA of psychoactive drugs with (08) suitable examples.
- Q.4 a) Discuss about role of chirality with examples in selective and specific (07) therapeutic agents.
 - b) Explain the importance of enzyme inhibition in drug design process. Analyze (08) design of covalent and non-covalent binding of enzymes with suitable examples.
- Q.5 a) Discuss in brief about Classification, chemistry, SAR & MOA of COX 1 (07) inhibitors.
 - b) Describe in detail analog design based on changes in ring size, alteration of (08) chain branching with examples.
- Q.6 Write Short notes: (15)
 - a) Site specific prodrugs
 - b) High throughput screening
 - c) Adrenergic antagonists

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