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Total Number of Pages: 02

MPHARM
M.PH 2B.1

2nd Sem Back Examination – 2015-16
ADVANCED MEDICINAL CHEMISTRY-I
Q.CODE:W988x
Time: 3 Hours
Max marks: 70

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions: (2x10)
- a) Enumerate the important route of administration
 - b) Give examples of reductive reaction in metabolism of drugs.
 - c) What do you mean by target selection in drug design?
 - d) Write the importance of hydrophobic parameters in drug action.
 - e) How does protein binding affect the action of drugs?
 - f) What do you mean by convergent synthesis?
 - g) Name some conjugation pathway in drug metabolism.
 - h) Explain lead and the pharmacophore point in design of drugs.
 - i) Give two examples of drug undergoing metabolism leads to bioactivation.
 - j) Differentiate the isosterism and bioisosterism?
- Q2 Explain how the physicochemical properties of drug molecules affect in drug design. (10)
- Q3 Write the role of cytochrome P-450 monooxygenase in metabolism of drugs. (10)
- Q4 Give an account on High throughput organic synthesis and its importance. (10)
- Q5 What do you mean by retro-synthesis? Discuss its role as a strategy in drug synthesis. (10)
- Q6 Write in detail about compound design with the combinatorial library. (10)

Q7 Write short note on (5×2)
(a) Transduction mechanism
(b) Synthesis of oligomers

Q8 Discuss briefly on (5×2)
a) Strategic bond approach
b) Solid phase synthesis

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