

FACULTY OF PHARMACY

**M. Pharmacy (Pharmacology) II – Semester (PCI) (Main) Examination,
August 2019**

Subject: Principles of Drug Discovery

Time: 3 Hrs

Max.Marks: 75

Note: Answer any five questions. All questions carry equal marks.

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| 1 | a) Write a note on target identification and validation. | 7 |
| | b) Describe abt role of transgenic animals in target validation. | 8 |
| 2 | a) Write a note on solid phase synthesis. | 8 |
| | b) Explain in brief abt cell based high thrghput screening. | 7 |
| 3 | a) Write a note on traditional drug design. | 5 |
| | b) Explain in detail abt virtual screening techniques. | 10 |
| 4 | a) Write a note on docking based screening. | 7 |
| | b) Describe in brief abt h ansch analysis and free Wilson analysis. | 8 |
| 5 | a) Write the advantages of prodrug design. | 6 |
| | b) Describe the practical consideration of prodrug design. | 9 |
| 6 | a) Explain in brief abt role of protein micro array in drug discovery. | 6 |
| | b) Describe in detail abt types of protein structure. | 9 |
| 7 | a) Write a note on types of fluorescence screens in HTS. | 8 |
| | b) Describe the concept of rational drug design. | 7 |
| 8 | a) Write a note on de-novo drug design. | 7 |
| | b) Describe in brief abt 3D -QSAR. | 8 |
