

M.Pharm. First Year (Pharmaceutics) CBCS Pattern Semester-I
MPH102T - Drug Delivery System

P. Pages : 1

Time : Three Hours



GUG/W/23/14167

Max. Marks : 75

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- Notes : 1. All questions carry as indicated marks.
2. Illustrate your answers wherever necessary with the help of neat sketches.
3. All question are compulsory.

- 1. Solve any ten.** **10x2**
=20
- i) Biodegradable polymers.
 - ii) Vaccine delivery systems.
 - iii) Customized Drug Delivery System.
 - iv) Evaluation parameters of delivery system of proteins.
 - v) Barriers.
 - vi) Principle of Muco adhesion in Buccal drug delivery system.
 - vii) Advantages and Disadvantages of Gastro Retentive drug delivery system.
 - viii) Evaluation of Transdermal drug delivery system.
 - ix) Osmotic activated drug delivery system.
 - x) Bioelectronic medicines.
 - xi) Telepharmacy.
 - xii) 3D printing of Pharmaceuticals.
- 2. Write a note on any five.** **5x7=**
35
- i) Buccal strips.
 - ii) Formulation of gastro retentive drug delivery systems.
 - iii) Occuserts.
 - iv) Pharmacogenetics.
 - v) Natural polymers.
 - vi) Osmotic Pumps.
 - vii) Ophthalmic drug delivery systems.
- 3. Solve any two.** **2x10**
=20
- i) Describe formulations of pH activated Drug Delivery system.
 - ii) Explain the principle and approaches for formulation of rate controlled DDS.
 - iii) Explain about Ocular Drug Delivery system.
