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DBX-MPH-102-T Seat No. _____

Master of Pharmacy (Sem. I) (WEF-2017) Examination

July - 2022

Drug Delivery System (MPH-102T)

Time : **3** Hours] [Total Marks : **75**

Instructions : (1) Answer the following questions.
(2) Figure to the right indicate marks.
(3) Draw neat & clean diagrams as required.

1 Answer the following questions : **10×2 = 20**

(a) Enlist the importance of protein and peptides in Pharmaceuticals.

(b) Classify the rate controlled drug delivery system.

(c) What is OROS-CT osmotic system?

(d) Write about polymers used for controlled and sustained drug delivery system.

(e) Why folding endurance is more important in transdermal drug delivery system?

(f) Give the general Pathway for ocular absorption.

(g) Write the mechanism of vapor pressure activated DDS.

(h) How GRDDS is different from Sustained Release dosage form?

(i) Compare the iontophoresis and electroporation.

(j) Give the limitation of Buccal drug delivery system.

2 Answer any **two** out of the following : **2×10 = 20**

(a) Mention the suitability of drugs for GRDDS. Explain the low density approach.

(b) Explain the concept and types of Activation Modulated Drug Delivery Systems with examples.

(c) Explain the merit, demerit, factors influencing for SR/CR formulation. Discuss the dissolution controlled approach in detail.

3 Answer any **7** out of the following : **7×5 = 35**

(a) Which are the potential sites for bio adhesion? Write a note on Methods of formulation and its evaluation of buccal drug delivery system.

(b) Write short notes on Single shot vaccines.

(c) Briefly explain the concept of PEGlyation and its use in delivering peptide.

(d) Discuss the formulation and evaluation of transdermal patch.

(e) Discuss the approaches to improve oral absorption of Proteins & Peptides

(f) Write a note on Personalized Medicine.

(g) Define Permeation Enhancer and write a detail note on it.

(h) Explain in detail about various Ophthalmic inserts.

(i) Discuss osmotic activated drug delivery systems.
