



DC-BP704T

Seat No. _____

M. P. M. (Sem. VII) (W.E.F. 2017) Examination

March – 2022

BP - 704 - T : Novel Drug Delivery System - Theory

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

- Define permeation enhancer and give examples of it.
- What do you mean by drug targetting?
- Comment: Liposomes are considered versatile carriers for parenteral drug delivery.
- What do you mean by Loading dose and Maintenance Dose?
- Differentiate sustained and controlled release dosage forms.
- How GRDDS differ from sustained release dosage form
- Differentiate the Liposomes and Niosomes.
- Give the examples of marketed transdermal formulations.
- Give the rationale for Buccal Drug Delivery System.
- Enlist the applications of Intrauterine Drug Delivery Systems.

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

- Give an account of Floating approaches for designing of Gastro retentive dosage form.
- What properties are required for the drug to be a candidate for transdermal drug delivery system? Explain formulation of transdermal drug delivery system.
- Describe in detail about the physiochemical and biological factors affecting design of oral sustained release systems.

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

- (a) Describe Microencapsulation technique for particle coating.
 - (b) Discuss method of preparation of Nanoparticles.
 - (c) Discuss the formulation and recent innovations in MDI (Metered dose inhaler) technology.
 - (d) Write a note on mucoadhesive polymers.
 - (e) Explain in detail about methods to overcome the Intra ocular barriers.
 - (f) Write a note on-osmotic pump.
 - (g) Explain the various factors affecting in Nasal drug delivery system.
 - (h) Briefly describe the importance of various properties of polymers in formulation of controlled release drug delivery systems.
 - (i) Discuss in brief about Niosomes with application.
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