



BBC-1612020701080200 Seat No. _____

M. P. M. (Sem. VIII) (CBCS) (W.E.F. 2016) Examination

June / July – 2021

Dosage Form Design - II

Time : 3 Hours]

[Total Marks : 80

- Instructions :**
- (1) Answer and tie both the sections separately
 - (2) Figure to the right indicate marks.
 - (3) Answer any three (03) questions from each sections.
 - (4) Question no. 1 and Question no. 5 are compulsory.
 - (5) Draw neat & clean diagrams as required.

SECTION - I

- 1** Answer any **seven** question out of ten : **7×2=14**
- (1) Write the advantages of colon targeted drug delivery system over conventional drug delivery system.
 - (2) Write down the polymers used for delay release dosage form.
 - (3) What is buoyancy lag time and floating time?
 - (4) Enlist the evaluation parameter of colon targeted drug delivery.
 - (5) Write the mechanism of drug release for expandable approach in gastro retentive drug delivery system.
 - (6) Write down the application of gastro retentive drug delivery system.
 - (7) What do you mean by stress testing?
 - (8) What is lacrisert?
 - (9) What is the role of permeation enhancers in transdermal dosage form?
 - (10) What is modified release dosage form?
- 2** Answer the following Questions :
- (1) What is GRDDS? Give its merits and demerits. **7**
Write the drug selection criteria for it.
 - (2) What are loading and maintenance dose? **6**
How are they calculated?

- 3 Answer the following Questions :
- (1) Discuss the factors affecting colon specific drug delivery system. 7
- (2) Write a note on factors affecting on stability of pharmaceutical dosage form. 6
- 4 Answer the following Questions :
- (1) Explain regulatory requirements related to stability studies with emphasis on matrixing. 7
- (2) What is extended release dosage form discuss the different types of extended release dosage forms. 6

SECTION - II

- 5 Answer any **two** out of three : **2×7=14**
- (1) Enumerate the pharmaceutical approaches of colon targeted drug delivery system. Explain the covalent linkage of drug in detail.
- (2) Discuss Delayed transit and continuous release system for SR and CR drug delivery system.
- (3) Explain the methods of Accelerated Stability Testing In Dosage forms
- 6 Answer the following Questions :
- (1) What is transdermal drug delivery system? Write its merits and demerits. Describe in detail the evaluation parameter of it. 7
- (2) Discuss the dissolution controlled release sustained and controlled drug delivery system. 6
- 7 Answer the following Questions :
- (1) Discuss the ocular controlled release dosage form 7
- (2) Write a brief note transmucosal drug delivery system. 6
- 8 Answer the following Questions :
- (1) What kind of dosage adjustment is needed in patients with and without renal and hepatic failure? 7
- (2) Discuss the advantages, disadvantages and ideal characteristics of targeted drug delivery system. 6