

M.PHARM. (PHARMACEUTICS) SEM.-I (CBCS-2019 COURSE) : WINTER - 2021
SUBJECT : MODERN PHARMACEUTICS

Day : Wednesday
Date : 17-11-2021

Time : 10:00 AM-01:00 PM
Max. Marks : 75

W-20728-2021

N.B.

- 1) Attempt **ANY FIVE** questions from the following.
- 2) Figures to the **RIGHT** indicate **FULL** marks.

-
- Q.1** a) Explain with suitable example of three factor two level factorial design to optimize the formulation. (10)
- b) Discuss the significance of diffusion and diffusion parameters in solid dosage form. (05)
- Q.2** a) Explain the concept of preformulation. Explain in brief the Drug-Excipients interactions of solid dosage form. (10)
- b) Explain the inventory management in pharmaceutical industry. (05)
- Q.3** a) Discuss dissolution parameters of sustained release tablet. (08)
- b) Define validation. Discuss the scope and merits of validation. (07)
- Q.4** a) Explain the concept of Total Quality Management. (08)
- b) Explain the role of Higuchi and Peppas equation in the Kinetics of Drug Release. (07)
- Q.5** a) Elaborate objectives and policies of cGMP. (08)
- b) Discuss IQ, OQ, PQ – Qualifications with suitable example. (07)
- Q.6** Write notes on the following. (15)
- a) Stability testing in preformulation
 - b) ANOVA test
 - c) Physics of tablet compression

* * * * *