

Od 11

(REVISED COURSE)

(2 Hours)

[Total Marks : 40]

- N.B. :** (1) Question No.1 is **compulsory**.
 (2) Answer any **three** questions from the remaining **five** questions.
 (3) **Figures** to the **right** indicate **full** marks.

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| 1. (a) | Discuss various factors to be considered in the formulation of Injectable liquids. How the volume of the package, Usage and Route of administration affect this ? | 5 |
| (b) | Write on packaging of sterile semisolids. | 5 |
| 2. | Discuss formulation and manufacturing of ophthalmic ointments. | 10 |
| 3. (a) | Discuss the advantages of Sustained Release products. | 4 |
| (b) | Compare matrix and reservoir sustained release systems. | 6 |
| 4. (a) | State Arrhenius equation. Discuss Limitations of Arrhenius equation in prediction of shelf life. | 5 |
| (b) | Discuss advantages and guidelines/protocol of accelerated stability testing. | 5 |
| 5. (a) | State criteria in the selection of a non aqueous vehicle for infections. | 5 |
| (b) | Write a note on contact lens care products. | 5 |
| 6. (a) | Write notes on "Preservatives and efficacy testing". | 5 |
| (b) | Discuss "Sterile freeze dried powder in Vials". | 5 |