

T.Y.B.PHARM. SEMESTER-V (CBCS - 2015 COURSE) :

WINTER - 2017

SUBJECT: PHARMACEUTICAL TECHNOLOGY-I

Day : **Tuesday**

Time : **10.00 AM TO 01.00 PM**

Date : **14/11/2017**

W-2017-3802

Max. Marks : **60**

N. B.:

- 1) **Q. No. 1 and Q. No. 5 are COMPULSORY.** Out of the remaining attempt any **TWO** questions from each section.
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.

SECTION-I

- Q.1** Answer the following (**ANY FIVE**) **(10)**
- a) How particle size influence the solubility?
 - b) Define sedimentation and what is Stoke's law?
 - c) What are the processes involved in formation of emulsion?
 - d) Give the importance of GMP.
 - e) Explain different types of layout designs.
 - f) What is importance of inherent stability study in designing a suitable dosage form?
- Q.2** a) Discuss the processing parameters that influence the size of globules, size distribution, viscosity and stability of an emulsion. **(07)**
- b) Explain the importance of organoleptic studies in preformulations. **(03)**
- Q.3** a) Discuss how particle size distribution and shape can influence various physical as well as biopharmaceutical properties of a drug substance. **(07)**
- b) Explain creaming of an emulsion. **(03)**
- Q.4** Write short note on any **TWO** of the following: **(10)**
- a) Suspending agents
 - b) Equipments used for emulsification
 - c) Working stations and supporting services in liquid oral department

SECTION-II

- Q.5** Answer the following (**ANY FIVE**) **(10)**
- a) Write opacifying and clarifying agents used in shampoo.
 - b) What are limitations of transdermal drug delivery systems?
 - c) What are quality characteristics of eye shadows?
 - d) Mention the advantages and disadvantages of sigma blade mixture.
 - e) Enlist various materials used in deodorants.
 - f) Mention the various film formers used in Nail lacquers.
- Q.6** a) Discuss the formulation of lather shaving cream. **(07)**
- b) Explain how drug penetrate the skin. **(03)**
- Q.7** a) Discuss in detail factors affecting percutaneous absorption. **(07)**
- b) Explain manufacturing problems in lipstick. **(03)**
- Q.8** Write short note on any **TWO** of the following: **(10)**
- a) Ointment bases
 - b) Eye mascara
 - c) Anti-acne products