

T.Y.B.PHARM. SEMESTER-V (CBCS - 2015 COURSE) :
SUMMER - 2018

SUBJECT: PHARMACEUTICAL TECHNOLOGY-I

Day : **Saturday**
Date : **28/04/2018**

S-2018-3929

Time : **10.00 AM TO 01.00 PM**
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.
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SECTION-I

- Q.1** Answer the following (**ANY FIVE**) **(10)**
- a) Give the requirements of building and water supply according to GMP.
 - b) Give flow chart for liquid manufacturing process.
 - c) Define Intrinsic solubility.
 - d) Write importance of GMP in pharmacy.
 - e) What are different characteristics of well formulated suspension?
 - f) Enlist the preformulation tests to be conducted on new drug substance.
- Q.2** a) Discuss in detail formulation of emulsion. **(07)**
b) Explain in brief the effect of temperature on stability of drug. **(03)**
- Q.3** a) What is zeta potential? How zeta potential affect on flocculation of dispersed particles of suspension? **(07)**
b) Explain polymorphism and crystal properties. **(03)**
- Q.4** Write short note on any **TWO** of the following: **(10)**
- a) Evaluation of monophasic liquids
 - b) Theories of emulsification
 - c) Good practices in quality control

SECTION-II

- Q.5** Answer the following (**ANY FIVE**) **(10)**
- a) Write down the names of gelling agents and mention the type of gels.
 - b) Mention the ideal properties of sunscreen agent.
 - c) What are the ideal characteristics of penetration enhancer?
 - d) What is epilation and depilation?
 - e) Mention the various plasticizers used for nail lacquers.
 - f) What are the liquid mascaras?
- Q.6** a) Discuss the formulation and manufacturing of Lipsticks. **(07)**
b) Why rheological property of semisolid product is important? **(03)**
- Q.7** a) Discuss the formulation of shampoos. **(07)**
b) Explain the semi-permanent hair dyes. **(03)**
- Q.8** Write short note on any **TWO** of the following: **(10)**
- a) Nail paint removers
 - b) Moisturizing lotions
 - c) Evaluation of semisolids.