## T.Y.B.PHARM. SEMESTER-V (CBCS - 2015 Course): SUMMER - 2010

## SUBJECT: PHARMACEUTICAL TECHNOLOGY - I

Time: 10.00 A.M. TO 01.00 P.M. Day Thursday Date Max. Marks: 60 02/05/2019 S-2019-4396 N. B.: 1) Q. No. 1 and 5 are COMPULSORY. Attempt any TWO questions from each 2) Figures to the right indicate FULL makes. Answers to both the sections should be written in **SEPARATE** answer book. 3) **SECTION-I** Q.1 Answer the following: (Any FIVE) (10)Explain the different components of layout designs. a) **b)** Define the term wettability. Write importance of GMP in relation to documentation. c) d) What is role of buffers in liquid dosage form? Give examples. Which factors determine the dose accuracy of suspension? e) f) What is mechanism of suspending agents? Q.2 a) Discuss importance of physical characteristics study of drug in preformulation (07) for formulation development. A suspension of a drug with slight solubility in aqueous phase having pKa of 8 has failed to comply sedimentation requirement after one year of storage. What are the possible reasons and remedies to solve this problem? Explain formation of an emulsion, various compounding methods and its (07)Q.3 a) stability aspects. Suggest suitable antioxidants each for oral liquid having acidic, neutral and (03)b) alkaline pH. **Q.4** Write short note on any **TWO** of the following: (10)a) Formulation of suspension b) Solid –state stability c) Emulsifying agents **SECTION-II** 0.5 Answer the following: (Any **FIVE**) (10)Define and classify gels. a) What are quality characteristics of eye brow pencil? b) Mention ideal properties of drug that govern skin permeation. c) Enlist various materials used in deodorants d) Why creams are preferred over ointments? **e**) What are ideal properties for lipstick? f) Explain the concept of percutaneous absorption and various factors affecting it. (07)Q.6 a) Write about permanent hair colorants. (03)b) Q.7 a) Discuss different types of shampoos. (07)b) Explain brushless shaving preparation. (03)Write short note on any **TWO** of the following: (10)**Q.8** Moisturizers a) b) Anti- Sunburn products Eye shadow c)