

SUBJECT: PHARMACEUTICAL TECHNOLOGY-II

Day: Friday
Date: 16/11/2018

W-2018-4093

Time: 10.00 A.M. TO 01.00 P.M.
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) Answer to the both sections should be written in **SEPARATE** answer book.
- 3) Figures to the right indicate **FULL** marks.

SECTION -I

- Q.1** Attempt **ANY FIVE** of the following: (10)
- a) Solid state water sensitive API is to be formulated in pediatric tablet. Suggest suitable type of tablet and justify it.
 - b) Explain the objectives of granulation
 - c) Explain the polishing/ abrasive agents in tooth powder
 - d) Enlist the advantages and disadvantages of lozenges
 - e) Draw layout of manufacturing of compressed tablet
 - f) Comment/ select suitable diluents amongst the following for chewable tablets; dicalcium phosphate, mannitol, lactose
- Q.2** a) Explain in detail dry syrup formulation for reconstitution (07)
b) Tablets containing excess magnesium stearate show defects and fail in disintegration test. Explain possible reason. (03)
- Q.3** a) Discuss the GMP aspects for compressed tablet (07)
b) A tablet weighing 200 mg is tested for weight variation as per IP, the average reading is 245 mg. Justify does it passes the test. (03)
- Q.4** Write short note on **ANY TWO** of the following: (10)
- a) Defects and remedies in tablet manufacturing
 - b) Mouth Dissolving Tablet
 - c) Equipments used in mixing

SECTION -II

- Q.5** Attempt **ANY FIVE** of the following: (10)
- a) What are advantages and disadvantages of film coating?
 - b) Explain plasticizers used in softgel formulation
 - c) Draw flow chart of commercial process for conversion of collagen to gelatin
 - d) Which are different polymorphs of coca butter?
 - e) What are various sizes of hard gelatin capsule?
 - f) What is compression coating?
- Q.6** a) What are soft gelatin capsules? Discuss in detail manufacturing process for soft gelatin capsules. (07)
b) Explain the steps involved in compounding of glycerogelatin suppositories (03)
- Q.7** a) Describe different quality control tests of tablets. (07)
b) Explain various defects and remedies of tablet coating (03)
- Q.8** Write short note on **ANY TWO** of the following: (10)
- a) Displacement value
 - b) Types of tablet packaging
 - c) Sugar coating