

Code No: PCE32A/R13

M. Pharmacy II Semester Regular/ Supplementary Examinations, July-2016

**ADVANCED PHARMACEUTICAL TECHNOLOGY/  
ADVANCED PHARMACEUTICAL TECHNOLOGY-I**

(Common to PHARMACEUTICS and PHARMACEUTICAL TECHNOLOGY)

Time: 3 Hours

Max. Marks: 60

---

*Answer any FIVE Questions  
All Questions Carry Equal Marks*

---

- |    |   |   |    |
|----|---|---|----|
| 1. | a | What is the influence of particle size and surface area as preformulation parameters in tablet dosage forms? Explain the determination of surface area of drugs by adsorption method. | 9  |
|    | b | Explain the significance of lubricant while compression of tablets.   | 3  |
| 2. | a | Classify various coating techniques. Explain in detail about mechanism, working and applications of perforated coating pans.  | 8  |
|    | b | Write about the formulation of film coating solution.   | 4  |
| 3. | a | Explain in detail about the compression process in rotary tablet compression machines by focusing on various parts and their role.  | 10 |
|    | b | Give a brief note on BB tooling   | 2  |
| 4. | a | Give an account on preformulation of suspension dosage forms.   | 8  |
|    | b | Write a note on super-disintegrants with examples.  | 4  |
| 5. | a | Write about the formulation development of emulsion dosage forms.   | 8  |
|    | b | Write a note on oleaginous bases in semi-solid dosage forms.  | 4  |
| 6. | a | Give a detailed account on formulation of parenteral dosage forms by giving recent examples of excipients.  | 8  |
|    | b | Write about microbial air testing.  | 4  |
| 7. | a | Give a detailed account on propellants, containers and valve components of aerosol packing  | 9  |
|    | b | Compare the advantages and disadvantages of metered dose inhalers to dry powder inhalers  | 3  |
| 8. | a | Write the techniques of evaluation of aseptic operations.   | 8  |
|    | b | Give a brief account on gaseous sterilization.  | 4  |

\*\*\*\*\*