

## P38/HSC247/EE/20160523

**Time : 3 Hours**

**Marks : 80**

---

**Instruction :**

1. All Questions are Compulsory.
  2. Each Sub-question carry 5 marks.
  3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
  4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
- 

1. Solve any **four** sub-questions.
  - a) Define Capsules. Give a note on sizes of capsules. Give disadvantages of capsules. 5
  - b) Define Excipients. Give the classification along with example. 5
  - c) What are the quality control tests for coated tablets. Explain any one. 5
  - d) Explain the anatomy of skin. 5
  - e) Explain in brief methods of preparation of Ointments. 5
2. Solve any **four** sub-questions.
  - a) Short note on Gel Forming Agents. 5
  - b) What is Preformulation? Enlist bulk characterization. Explain any one. 5
  - c) Draw a well labelled diagram of FBD. 5
  - d) Explain the defects in film coating. 5
  - e) Explain the standards for Empty Hard gelatin capsules. 5
3. Solve any **four** sub-questions.
  - a) Write a note on Triple Roller Mill. 5
  - b) Enlist problems that occur for film coating and give its remedies. 5
  - c) What is Coating? Define types of coating. 5
  - d) Differentiate between Capsules and Tablets. 5
  - e) Write a note Ointment Bases. 5

4. Solve any **four** sub-questions.
- a) Draw well labelled diagram of Ribbon Mixer and V-shape blender. 5
  - b) Explain in brief manufacturing of Emulsions. 5
  - c) Explain in brief Dry Granulation Method. 5
  - d) What are Tablets? Explain in brief manufacturing of Tablets. 5
  - e) Explain in brief Sugar coating. 5

