

P. Pages : 1

Time : Three Hours



AW - 2319

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Answer **any five** question.
 3. Assume suitable data wherever necessary.
 4. Diagrams and chemical equations should be given wherever necessary.
 5. Illustrate your answer necessary with the help of neat sketches.
 6. Use of pen Blue/Black ink/refill only for writing the answer book.

1. Write various advantages and disadvantages of capsules dosage form. Describe methods of preparation of soft gelatin capsules. **12**
2. Discuss various large scale granulation technology in detail. **12**
3. Describe various stages in manufacturing of parenteral products. **12**
4. Describe various types of tablets. Explain in details various tablet excipients with examples. **12**
5. Discuss legal and official requirements for selection of containers. **12**
6. Discuss various methods for prevention of contaminations. Give the design of aseptic area. **12**
7. Write a note on **any two**. **12**
 - a) Laminar flow bench services.
 - b) Isotonicity.
 - c) GMP
