

**UKA TARSADIA UNIVERSITY**

Maliba Pharmacy College

M. Pharm. Pharmaceutics 1<sup>st</sup> Semester Internal Examination December 2013**040040103 Industrial Pharmacy**

Time: 10:30 a.m. To 1:30 p.m.

Max. Marks: **70**

Date: 09/12/2013

**Instructions:**

- Attempt all questions.
- Make suitable assumption whenever necessary.
- Figures to the right indicate full marks.
- Draw diagrams/figures wherever necessary.

**Section-I****Q-1 Answer the following: [11]**

a) Enlist different quality control tests to be performed on different types of liquid dosage forms. [03]

OR

a) Enumerate different steps and various excipients in manufacturing of hard gelatin capsule shells. [03]

b) Describe the qualitative and quantitative layout for large volume parenterals. Enlist advantages of parenteral products. [06+02=08]

**Q-2 Answer the following: [12]**

a) With a neat diagram, explain the qualitative and quantitative layout for manufacturing of dispersible tablets? Enlist equipments used for evaluation of tablets. [06+02=08]

OR

a) Describe pilot plant activities associated with manufacturing of film coated tablets. [08]

b) Explain role of engineering and calibration departments in pilot plant operation. [04]

**Q-3 Answer the following: (Any 2) [12]**

a) Write a note on design of parenteral manufacturing area.

b) Write a note on roller compactor.

c) Role of personnel in manufacturing of sterile products.

**Section-2****Q-4 Answer the following: [11]**

a) Why pilot plant activities are required to be carried out? [03]

OR

a) Enlist different techniques to improve productivity in a pharmaceutical manufacturing unit. [03]

b) Describe the principles, applications, limitations and methods of EOQ. [08]

**Q-5 Answer the following: [12]**

a) Describe the BMR of Amoxicillin 500 mg hard gelatin capsules. [08]

OR

a) Write a note on production scheduling and forecasting. [08]

b) Enlist functions of quality assurance and quality control departments in a pharmaceutical unit. [04]

**Q-6 Answer the following: (Any 2) [12]**

a) Describe SOP of dissolution apparatus.

b) Draw Pareto curve and explain ABC concept of inventory control.

c) Discuss BPR of Metronidazole tablets packed in ALU-PVC strip.