

UKA TARSADIA UNIVERSITY

M.Pharm. (QA) (1st Semester)

Subject :040030103 - Good manufacturing and Good Laboratory Practice

Duration: 3 Hours

Max. Marks: 70.

Instructions:

1. Attempt all questions.
2. Write each section in a separate answer book.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks allocated to that question.
5. Draw diagrams/figures whenever necessary.

Section-1

Q-1 (A) Answer the following. [07]

- I) What is full form of cGMP?
- II) What is Schedule M?
- III) What is meant by layout of a plant?
- IV) Write the importance of in-process quality control.
- V) What are control charts?
- VI) Who are vendors?
- VII) Name the different utilities required in pharma manufacturing.

Q-1 (B) Answer the following in brief. (Any 4) [08]

- I) Discuss the benefits of vendor certification.
- II) What are purchase specifications?
- III) Discuss the benefits of making SOPs.
- IV) What is the difference between master formula and batch records?
- V) What are CIP and SIP type of equipments?
- VI) Enumerate the IPQC tests performed on liquid oral dosage forms.

Q-2 Answer the following. [10]

- A) Discuss the responsibilities of personnel as per GMP.

OR

- A) What points are considered for selection of location and premises for a pharma plant?
B) Write the content of batch production record.

OR

- B) Write a detailed SOP for drying of granules in a tray dryer.

Q-3 Answer the following in detail. (Any 2) [10]

- A) How are GMP, QA and QC inter-related? Explain role of each.
- B) Describe the GMP guidelines to be followed during manufacturing operations.
- C) Discuss Sch M guidelines for selection, location, use and maintenance of equipments.

Section-2

Q-4 (A) Answer the following. [07]

- I) What is Sch L1?
- II) What are retention samples?
- III) What is quality review?
- IV) Write the importance of proper sampling.
- V) How are returned goods handled?
- VI) What is product recall?
- VII) What is line clearance?

Q-4 (B) Answer the following in brief. (Any 4) [08]

- I) What is meant by reconciliation of labels?
- II) What is the role of QA unit of a testing laboratory as per GLP?
- III) Describe the information to be included in distribution records.
- IV) What are the different methods of disposal of pharmaceutical waste?
- V) Name the tests performed on rubber closures as packaging material.

VI) What are the different types of specifications?

Q-5 Answer the following.

[10]

A) What activities does the quality control department perform?

OR

A) Define 'complaint'. Explain the procedure for complaint handling.

B) Who is a study director? What are the duties of the study director as per GLP?

OR

B) Explain the GMP guidelines for packaging operation.

Q-6 Answer the following in detail. (Any 2)

[10]

A) Discuss the good warehousing practices.

B) Write a note on WHO certification scheme.

C) Discuss the importance of quality audits. Describe briefly internal audits.