

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0321]

MARCH 2021

Sub. Code: 2067

(SEPTEMBER 2020 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI Regulation SEMESTER – VI

PAPER VI – QUALITY ASSURANCE

Q.P. Code : 562067

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Discuss the concept Quality by design. What are various elements and tools required for the same?
2. Discuss the concept, general provisions and protocols of GLP with reference to a nonclinical laboratory study.
3. What is good warehousing practices? Describe briefly material management in a warehouse.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Elements and philosophies of total quality management.
2. General principles of analytical method validation.
3. Brief overview of QSEM.
4. Purchase specifications and maintenance of stores for raw materials.
5. Quality control test for rubber closures.
6. Plant layout of pharmaceutical industry.
7. Quality review and quality documentation.
8. Batch formula records.
9. Benefits and elements of ISO 9000 and ISO 14000.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Principles of NABL Accreditation.
2. Master formula records.
3. Purpose of ICH guidelines.
4. Concept of GMP.
5. Quality audit.
6. Handling of return good.
7. Records and reports.
8. SOP.
9. Purchase specifications.
10. Validation master plan.

[BPHARM 0921]

SEPTEMBER 2021
(SEPTEMBER 2020 EXAM SESSION)

Sub. Code: 2067

B. PHARMACY DEGREE EXAMINATION
PCI Regulation 2017 - SEMESTER - VI
PAPER VI – QUALITY ASSURANCE
Q.P. Code : 562067

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. What is the concept of TQM, describe in details various elements required for management of quality in pharmaceutical industry.
2. Explain the quality control tests for containers, rubber closures and secondary packing materials.
3. Compare calibration, qualification and validation. How do you prepare validation master plan? Describe calibration of UV-visible spectrophotometer.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. ICH stability testing guidelines.
2. Describe the principle of NABL accreditations.
3. Write details on GMP with respect to sanitation and hygiene.
4. Signification of equipment validation.
5. GLP for test and control articles.
6. Disqualification of testing facilities.
7. Complaints and evaluation of complaints.
8. Master formula record.
9. General principles of analytical method validation.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. SOP.
2. Batch formula records.
3. Waste disposal.
4. Concept of quality control.
5. Non clinical laboratory.
6. Tools and elements of Qbd.
7. Good warehousing practice.
8. Benefits of ISO 14000.
9. Quality managements.
10. General provision of GLP.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0122]

**JANUARY 2022
(MARCH 2021 EXAM SESSION)**

Sub. Code: 2067

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER VI

PAPER VI – QUALITY ASSURANCE

Q.P. Code : 562067

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Describe the design, construction and plant layout of Pharmaceutical Industry.
2. How complaints should be handled according to the GMP provisions? Elaborate recalling and handling of return goods.
3. What are the general principles of analytical method development? Compare accuracy and precision of LOD and LOQ with reference to ICH guidelines.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. QSEM with special emphasis on Q-series guidelines.
2. Compare calibration, qualification and validation.
3. Testing facilities operation and disqualifying of testing facilities.
4. Explain quality Audit.
5. Compare the concept of QA and QC as per GMP.
6. What are the general provisions of good laboratory practices?
7. How do you conduct a nonclinical laboratory study?
8. Quality control test for secondary packing materials.
9. Good warehousing practices.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Concept of quality assurance.
2. Elements of TQM.
3. Personal records.
4. Control of contamination.
5. Quality review.
6. Overview of Qbd.
7. Evaluation of complaints.
8. Distribution records.
9. Materials management.
10. Calibration of pH meter.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0522]

MAY 2022

Sub. Code: 2067

(SEPTEMBER 2021 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI Regulation SEMESTER - VI

PAPER VI – QUALITY ASSURANCE

Q.P. Code : 562067

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. (a) Describe the process of harmonization of ICH guidelines.
(b) Explain the ICH stability testing guidelines.
2. Discuss the responsibilities, training and hygiene of personnel.
3. (a) Explain the importance and types of validation.
(b) Give the general principles of analytical method validation

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Explain the elements of quality by design program.
2. Discuss about equipment selection and purchase specifications.
3. Give a brief account of product recall.
4. Write a note on validation master plan.
5. Explain the good warehousing practices.
6. Write a note on batch formula record.
7. Discuss the protocol for conduct of a nonclinical laboratory study.
8. Explain the principles and procedures involved in NABL accreditation.
9. Discuss the quality control tests for glass container

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Quality assurance
2. Roles of head of production department
3. Standard operating procedure
4. Materials management
5. Control of contamination
6. Secondary packing materials
7. ISO 9000
8. Quality audit
9. Waste disposal
10. Control articles

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 1022]

**OCTOBER 2022
(MARCH 2022 EXAM SESSION)**

Sub. Code: 2067

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER VI

PAPER VI – QUALITY ASSURANCE

Q.P. Code : 562067

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Explain about good laboratory practices.
2. Discuss the principles and procedures involved in NABL accreditation.
3. Explain the design, construction, plant layout and sanitation of premises.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. What are the steps for the registration of ISO 9000?
2. Write the qualification of UV-Visible spectrophotometer.
3. Discuss the quality control tests for rubber closures.
4. Describe Batch Formula Record.
5. Give a brief account on the maintenance of sterile areas.
6. Write a note on ICH stability testing guidelines.
7. Discuss the maintenance of stores for raw materials.
8. Write in detail about evaluation of complaints.
9. Write a note on good warehousing practice.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Quality control.
2. Calibration.
3. Control of contamination.
4. Handling of returned goods.
5. Types of validation.
6. Standard operating procedure.
7. Reports and documents.
8. Total quality management.
9. Secondary packing materials.
10. Quality by design tools.
