



Code No: 24111709

UNIVERSITY OF PHARMACY

M. Pharmacy (P.T.O.) - Semester (Pharm. Quality Assurance) (Writing) Examination

June 2020

Subject: **Pharm. & Lab. Management**

Time: 3 Hours

Max. Marks: 75

Note: Answer any five questions. All questions carry equal marks. (5 x 15 = 75 Marks)

1. Write a note on the importance of the industry for students of Pharmacy.
2. Explain the importance of Quality Assurance in the industry.
3. Explain the importance of Quality Assurance in the industry.
4. Explain the importance of Quality Assurance in the industry.
5. Explain the importance of Quality Assurance in the industry.
6. Explain the importance of Quality Assurance in the industry.
7. Explain the importance of Quality Assurance in the industry.
8. Explain the importance of Quality Assurance in the industry.



Code No: G-12322PQ

FACULTY OF PHARMACY

6L Pharmacy (PC) 2 – Seminar (Pharm. Quality Assurance) (Ranking/Examination)

June 2023

Subject: Pharmaceutical Manufacturing Technology

Time: 2 Hours

Max. Marks: 75

Ans: Answer any five questions. All questions carry equal marks. (5 x 15 = 75 Marks)

1. Discuss about plant location.
2. Explain about production planning in pharmaceutical industry.
3. Discuss about automated and semi-automated manufacturing technology.
4. Discuss about different processes.
5. Discuss about in-process quality control and V. M. S.
6. Discuss about testing technology and equipment involved in testing technology.
7. Explain about stability and evaluation of packaging material.
8. Discuss about different aspects of change by design and its importance.



Code No: G-11274P02

FACULTY OF PHARMACY

M. Pharmacy Course in A.B.M. - Jawahar JCI's Main & Satellite Examinations,
June 2023

Subject: Research Methodology and Statistics

Total 1 Hour

Max Marks: 75

NOTE: Answer any five Questions, 40 Questions carry equal marks.

- (a) Write a note on types of research.
(b) What are the strategies to eliminate possibilities?

(3)
(4)
- (a) Write a note on primary and a secondary source of data.
(b) Give an idea about importance of sample size in research.

(3)
(4)
- (a) Give an idea about validity and reliability of research.
(b) Write a note on qualitative and quantitative research.

(3)
(4)
- (a) Give an idea about the following: IPRs and their role in research.
(b) Write a note on research ethics and its role in research.

(3)
(4)
- (a) Write a note on history of development of research.
(b) Write the basic principles of research.

(3)
(4)
- (a) Explain the basic principles of research.
(b) Write a note on statistical data analysis techniques.

(3)
(4)
- (a) Write about the role of research.
(b) Write a note on statistical data analysis techniques.

(3)
(4)
- (a) Explain the role of research ethics and research ethics in research.
(b) Write a note on statistical data analysis techniques.

(3)
(4)

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FACULTY OF PHARMACY

H. Pharmacy Pharm. Quality Assurance & Seminar PC's Slides

Estimate date: June 2004

Subject Manuscript: Delbano

Figure 1. Results

Shareholders' Rights

Order Answer and Five questions. All questions carry equal marks. (5 x 16 = 72 Marks)

- | | |
|--|------|
| 1. Define qualification. Explain different phases of qualification process of analytical equipment. | (14) |
| 2. Draw a brief outline
(a) Difference between Calibration and Validation.
(b) Validation Master Plan
(c) Qualification of equipment. | (16) |
| 3. (a) How to you qualify UV-visible Spectrophotometer?
(b) Write about Cleaning of equipment. | (10) |
| 4. (a) Write about validation of compressed air and nitrogen.
(b) Write about pharmaceutical water system validation. | (10) |
| 5. Write a short note on
(a) Steps in validation of GC.
(b) Incubators system. | (10) |
| 6. Define process validation. Explain the process validation of parent liquids. | (14) |
| 7. Write short note on following:
(a) Digital signature 21 CFR part 11
(b) Validation of facilities in sterile part. | (10) |
| 8. Write a short note on
(a) Intellectual Property Rights.
(b) Patent application forms and guidelines. | (10) |

FACULTY OF PHARMACY

**B. Pharmacy (Pharm. Quality Assurance) 6 Semester (PC) (Regular) Examination
June 2024**

Subject: Hazard and Safety Management

Time: 3 Hours

Max. Marks: 75

Note: Answer any five questions. All questions carry equal marks. (5 x 15 = 75 Marks)

1. Write a brief about Air and Land resources.
2. Add a guideline on Hazard report in Risk Assessment.
3. Add a note on OHSU-Risk Management System.
4. Explain in detail about Requirements of Chemical-based Hazards.
5. Explain in detail about Mechanical & Chemical accident.
6. Add a note on OHS Guidelines on risk assessment and risk management methods with risk.
7. Explain in detail about Ergonomic measures against workplace hazards.
8. Give a note on Effluent Treatment Procedure.

FACULTY OF PHARMACY

**B. Pharmacy (Pharm. Quality Assurance) 8 Semester (PC) (Backlog) Examination,
June 2024**

Subject: Pharmaceutical Manufacturing Technology

Time: 3 Hours

Max. Marks: 70

Note: Answer any five questions. All questions carry equal marks.

1. Elaborate legal requirements and norms for API and formulation industry.
2. Describe cost production starting in pharmaceutical industry.
3. Give an overviewing technology.
4. Give an overview of sterile product manufacturing technology.
5. Discuss about process Quality control system for Capsules.
6. Describe about coating technology and problems encountered in coating technology.
7. Explain about quality control and evaluation of packaging material.
8. Discuss about Quality by Design.

FACULTY OF PHARMACY

**B. Pharmacy 3 Semester (PC) (Pharm. Quality Assurance) (Semster) Examination,
June 2024
Subject: Audit & Regulatory Compliance**

Time: 2 Hours

(Max. Marks: 75)

Note: Answer any five questions. All questions carry equal marks.

- (a) What is audit and its objectives of audit?
(b) Discuss the functions of auditor.
- (a) Explain various categories of deficiencies that may be identified during the external audit of the pharma concerned?
(b) What do you mean by "quality system approval".
- (a) What is the role of a supplier's certificate, chemical certificate & preclinical certificate (CA & PA) in pharma GMP?
(b) Control of intermediates is essential in pharma industry? Justify the statement.
- (a) Describe the importance and procedure of audit of R&D section.
(b) Explain the audit procedure in the production department of tabletting and Coating.
- (a) Write a note on the quality audit of handling of a microbiological laboratory.
(b) Write a short note on the audit of water and moisture test, material control.
- (a) Write about auditing of QA/QC department.
(b) Discuss the unique features of auditing the pharmacy manufacturing.
- (a) Explain the processes for auditing water quality in a pharma production facility.
(b) Give a brief note on audit point of view of effluent treatment process.
- (a) Explain the auditing approach of control of drug product distribution and handling.



Code No: Z-42675423

FACULTY OF PHARMACY**M. Pharmacy (Pharm. Quality Assurance) 3-Semester (PC) (Main & Backlog)****Examination, NOVEMBER 2020****Subject: Pharmaceutical Validation****Time: 2 Hours****Max. Marks: 75M****Note: Answer any five questions. All questions carry equal marks.**

1. Define qualification. Explain different phases of qualification process along with equipment. (12)
2. Write a short note on:
 - (a) Factory Acceptance Test (8)
 - (c) Qualification of Potability test apparatus (7)
3. Write a short note on:
 - (a) Advantages of Validation (8)
 - (b) Validation master plan (8)
 - (c) Calibration of ITIS (8)
4. (a) What are the different parameters of ITIS QC, as described? (7)
 (b) Write about validation of compressed air and nitrogen. (8)
5. Describe the method validation guidelines for a new analytical method under ICH guidelines. (12)
6. Define process validation. Explain the process validation of capsules. (16)
7. Write a short note on:
 - (a) GMP (8)
 - (b) Cleaning of equipment (7)
8. Write a short note on:
 - (a) Right to get responsibilities of scientists (8)
 - (b) Significance of Transfer of Technology (7)



Code No: E-13176PC3

FACULTY OF PHARMACY

**B. Pharmacy II Semester (PC) (Pharm. Quality Assurance) (Main & Backlog)
Examination, November 2023**

Subject: Audit & Regulatory Compliance

Time: 1 hour

Max. Marks: 75

Rule: Answer any five questions. All questions carry equal marks.

1. (a) Describe different types of audit and explain the responsibilities of auditor. (10)
(b) What do you mean by management of audit? (5)
2. (a) Explain various categories of deficiencies that may be identified during the external audit of the pharmacy companies? (10)
(b) Give a brief note on "quality systems approach". (5)
3. (a) Discuss GMP requirements related to resources and manufacturing operations. (10)
(b) How do you address nonconformities during quality control activities? (5)
4. (a) Give an overview of auditing procedure, the scope of QA. (10)
(b) Discuss four general procedures applied in external manufacturing. (5)
5. (a) Write a note on the quality assurance in manufacturing of water for injection. (5)
(b) Write a note on the quality audit of bulk drug of a manufacturing of laboratory. (5)
6. (a) "CONDO of internal audit is positive in pharmaceutical industry".
Justify the Statement. (10)
(b) Give a brief note on the auditing of HPLC components. (5)
7. (a) Give a brief note on audit checklist of effluent treatment process. (10)
(b) Explain on the audit of pharmaceutical packaging system. (5)
8. What are the considerations in a GMP audit of a finished product manufacturing? (10)



Code No: Z-426759D

FACULTY OF PHARMACY

B. Pharmacy (Pharm. Quality Assurance) 5-Semester (PC) (Main & Backlog)

Examination, November 2021

Subject: Pharmaceutical Manufacturing Technology

Time: 3 hours

Max. Marks: 75

NOTE: Answer any five questions. All questions carry equal marks.

1. Describe the factors influencing plant layout and special provisions of plant layout.
2. Discuss about area planning & environmental control, soil and floor treatment, utilities in advanced sterile product manufacturing.
3. Discuss about in process quality control tests of solutions and suspensions.
4. Discuss about in process Quality control tests for Tablets.
5. Describe process automation in oral ~~solid~~ ^{solid} dosage and long acting parenterals.
6. Describe about quality control tests for packaging materials and filling equipment.
7. Describe Process analytical technology.
8. Discuss about different types of closures and closure forms.

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Code No: E-11673PC3

FACULTY OF PHARMACY

M. Pharmacy (Pharm. Quality Assurance) & Bachelor (PC) (Rural & Evening)

Examination, October 2022

Subject: Hazards and Safety Management

Time: 3 Hours

Max. Marks: 75

Note: Answer any five questions. All questions carry equal marks. (5 x 15 = 75 Marks)

1. Explain in detail about Mining industries.
2. Explain in detail of classification of chemical hazards.
3. Explain in detail on effects of radioactive pollution and control measures of it.
4. Write a note on Air circulation mechanisms indoors for sterile and non sterile area.
5. Explain in detail about Control measures for chemical hazards.
6. Write a note on Regulation of Chemical hazards.
7. Explain in brief about Fundamentals of Accident prevention.
8. Write a note on Effluent treatment systems.



CODE: RD-1-VT2020PO

FACULTY OF PHARMACY

At Pharmacy plaza, Lakshmi Vihar, Sanathal Pally (Rajbhog) Colony, April / May 2020

Subject: Hazards and Safety Management

Time: 3 hours

Max.Marks:75

Read answer any FIVE questions. All questions carry equal Marks. (5 x 15 = 75 Marks)

1. Explain in detail about Hazard Resources, Vulnerabilities and potential Hazards.
2. Write a brief note on Hazard identification in Hazardous, Air and water.
3. Write a brief note on Preliminary Hazard Analysis and critical Hazard Management system.
4. Explain in detail about Regulation of Chemical Based Hazards.
5. Explain in detail Hazardous and Hazardous Management methods and concept.
6. Add a note on Eco-friendly or less assessment process management methods and cost.
7. a) Give a brief note on various types of PFA extinguisher.
b) Write a note on effluent treatment procedure.
8. Write in detail Air pollution management is necessary for Metro And non-Metro area.

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Hyderabad



CDM No P-2234 PCD

FACULTY OF PHARMACY

M. Pharm. (Pharm. Quality Assurance) 3-Semester (PC) Planning/Examination,
May 2020
Subject: Audit & Regulatory Compliance

Time: 2 Hours

Max. Marks: 75

Note: Answer any five questions. All questions carry equal marks.

(5 x 15 = 75 Marks)

1. (a) What are the objectives and different types of audit. (15)
(b) Discuss the functions of management audit and planning process. (15)
2. (a) What is your master by "quality systems approach". (15)
(b) Describe cGMP Regulations Related to management responsibilities. (15)
3. (a) Discuss cGMP Regulations related to resources and manufacturing operations. (15)
(b) How do you address nonconformities during quality control activities. (15)
4. (a) Give an overview of auditing procedures of a vendor or API. (15)
(b) Explain how granulation procedures are audited in tablet manufacturing. (15)
5. (a) Write a note on the nonconformities audit of HVAC in injection industries. (15)
(b) Write a note on auditing ETPs by pollution control authorities. (15)
6. (a) How do you audit a capsule manufacturing facility. (15)
(b) Give a brief note on the auditing procedure for an aseptic area in parenteral manufacturing. (15)
7. (a) Explain the procedure for auditing water quality in a pharmaceutical production facility. (15)
(b) How do you audit pharmaceutical packaging materials. (15)
8. Write a note on chemical waste in a systematic cGMP audit of a finished product manufacturing facility. (15)

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Code: RPH-2020-21

FACULTY OF PHARMACY

M. Pharmacy (Pharm. Quality Assurance) & Bachelor of Pharmacy (B.Pharm)

Examination: April / May 2021

Subject: Pharmaceutical Validation

Time: 1 hour

Max. Marks: 75

Note: Answer any five questions. All questions carry equal marks

(5 x 15 = 75 Marks)

1. Define Calibration. Explain different phases of qualification process of analytical equipment. (15)
2. Write a short note on qualification of
 (a) Tally counter (15)
 (b) Fluidity test apparatus. (15)
3. Write a short note on
 (a) Validation master plan (15)
 (b) Calibration of PTH (15)
 (c) Factory acceptance test (15)
4. (a) What are the different parameters in PTHC to be attended? (15)
 (b) Write about pharmaceutical water system validation (15)
5. Summarize the various validation approaches for a new analytical method as per ICH guidelines. (15)
6. Define process validation. Explain the different steps in process validation. (15)
7. Write a short note on
 (a) Electronic records (15)
 (b) Cleaning of equipment (15)
8. Write a short note on
 (a) Rights and responsibilities of personnel (15)
 (b) Significance of Transfer of Technology (15)

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Hyderabad



Code No: C-1105PC

FACULTY OF PHARMACY

**M. Pharmacy (Quality Assurance) II – Semester (PC) (Backlog) Examination,
May 2020**

Subject: Pharmaceutical Manufacturing Technology

Time: 3 hours

Max.Marks:75

Note: Answer any five questions. All questions carry equal marks.

(5 x 15 = 75 Marks)

1. Discuss about legal requirements and licenses for API and formulation industry.
2. Discuss about area cleaning & environmental control, wall and floor treatment, utilities in 200,000 litre product manufacturing.
3. Discuss process validation in oral volume parenteral and large volume parenteral.
4. Discuss about in process Quality control tests for tablets.
5. Discuss about drying technology and problems associated in coating technology.
6. Discuss about sterilization in capsules and sterile ointment.
7. Explain about stability aspects and evaluation of packaging materials.
8. Discuss about Quality by Design.

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Code No: D-131119D

FACULTY OF PHARMACY

B. Pharmacy (Quality Assurance) II – Semester (PC) (Main) Examination

December 2020

Subject: HAZARD AND Safety Management

TIME: 3 Hours

REG. MARK: 75

Note: Answer any five questions. All questions carry equal marks.

1. Write a short note about Emergency and First Aid.
2. What do you mean by Static and Mobile components? Explain in brief function & components of Dispenser.
3. Give a brief note on the hazard and Waste management.
4. Discuss in brief about Critical Hazard Management System. For fire & chemical Hazards.
5. Explain in brief about Control measures for chemical hazards.
6. Write a short note about EHS guidelines for risk assessment & risk management.
7. Explain in brief about Self - protection measures against biological hazards.
8. Give a note on Ryan Thomas's Provision.

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Code No: E-12113/PC

FACULTY OF PHARMACY

B. Pharmacy (Pharma. Quality Assurance) & Semester (PC) (Main) Examination,

December 2022

Subject: Audit & Regulatory Compliance

Time: 3 Hour

Max. Marks: 75

Note: Answer any five questions. All questions carry equal marks.

1. (a) Why are audits essential in ensuring pharmaceutical quality? [7]
(b) Discuss the functions of Management audit and planning department. [8]
2. (a) Discuss cGMP regulations related to correction & preventive action (CAPA). [7]
(b) Discuss cGMP regulations related to conduct of internal audit. [8]
3. (a) Give an over view of auditing procedure of a vendor of API. [7]
(b) Explain how granulation processes are audited in tablet manufacturing. [8]
4. (a) What do you mean by "Quality System Approach"? [7]
(b) Write a short note on the audit strategy and master plan internal audit. [10]
5. (a) Write a note on the management audit of HVAC in pharma industries. [7]
(b) Write a note on auditing CAPA by external control authorities. [8]
6. (a) How do you audit a typical manufacturing facility? [7]
(b) Give a brief note on the auditing procedure for parenteral manufacturing. [8]
7. (a) Explain the procedure for auditing water quality in pharma industry. [10]
(b) Give a brief idea on implementing a quality system approach. [5]
8. Describe auditing procedure of control of drug product containers and closures. [10]



Code No: E-121-13/PO

FACULTY OF PHARMACY

B. Pharmacy (Pharm. Quality Assurance) 3 - Semester (PO) (New) Examination,
October 2022

Subject: Pharmaceutical Validation

Time: 3 Hours

Max. Marks: 75

Note: Answer any five questions. All questions carry equal marks.

1. Define qualification. Explain different phases of qualification process of analytical equipment. [10]
2. Give a brief overview:
 - (a) Advantages of Validation [3]
 - (b) Validation Master Plan [3]
 - (c) Qualification of tray dryer [3]
3. (a) How do you qualify UV Visible Spectrophotometer? [3]
(b) Write about Cleaning in place [3]
4. (a) Describe validation procedure for HPLC system. [3]
(b) Write about pharmaceutical water system validation. [3]
5. Write a short note on:
 - (a) Steps in validation of HPLC [3]
 - (b) Critical media. [3]
6. Define process validation. Discuss the different steps in process validation. [14]
7. Write short note on following:
 - (a) Digital signature/ e- GMP part 11 [3]
 - (b) Validation of facilities in scale-up. [3]
8. Write a short note on:
 - (a) Mechanism for protection of Intellectual Property. [3]
 - (b) Significance of Transfer of Technology. [3]



Code No: P-0116PO

FACULTY OF PHARMACY

M. Pharmacy (Quality Assurance) II – Semester (PO) (Main) Examination,

December 2022

Subject: Pharmaceutical Manufacturing Technology

Time: 3 Hours

Max.Marks: 75

Note: Answer any five questions. All questions carry equal marks.

1. Discuss the factors influencing plant layout and special provisions of plant layout.
2. Discuss the usual production processes of pharmaceutical industry.
3. Discuss how to produce quality controlled units of tablets and suspensions.
4. Discuss about advanced sterile product manufacturing technology.
5. Discuss about in process Quality control tests for Capsules.
6. Discuss about coating technology.
7. Discuss about quality control tests for packaging materials and filling equipment.
8. Discuss Process analytical technology.