



Code No: G-13105/PCI

FACULTY OF PHARMACY

B. Pharmacy (PCI) VI - Semester (Backlog) Examination, March 2025

Subject: Quality Assurance

Time: 3 Hours

Max. Marks: 75

PART - A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. What is TQM?
2. Mention elements of QbD.
3. List out the benefits of ISO accreditation.
4. Name different personnel records in a pharmaceutical industry.
5. Name few equipment used in pharmaceutical industry.
6. Why GLP is necessary?
7. What are to be mentioned in a complaint to a pharma industry?
8. What is quality audit? Write different types of audits?
9. Write the significance of validation.
10. Mention different distribution records?

PART - B

Note: Answer any two questions

(2 x 10 = 20 Marks)

11. Discuss about ICH guidelines.
12. Discuss about different components of master formula.
13. What is Calibration? Write its significance and explain calibration of pH meter.

PART - C

Note: Answer any seven questions

(7 x 5 = 35 Marks)

14. Write the procedure for NABL accreditation.
15. Explain the location, construction and sanitation of plant.
16. Write notes on maintenance of stores for raw materials.
17. Write quality control tests for glass containers.
18. Write notes on general provisions required to maintain GLP.
19. Discuss on recalling and waste disposal in pharma industry.
20. Explain about validation master plan.
21. Discuss on qualification of UV-Visible spectrophotometer.
22. Give informative notes on good warehousing practices.



Code No: G-13102/PCI

FACULTY OF PHARMACY

B. Pharmacy (PCI) VI - Semester (Backlog) Examination, March 2025
Subject: Herbal Drug Technology

Time: 3 Hours

Max. Marks: 75

PART - A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. What are the objectives of IPR?
2. Define the term Nutraceuticals.
3. What are antioxidants and give their importance.
4. Write the significance of natural excipient.
5. Define Aristas and Asawas.
6. List the plant based the research institutes in India.
7. What are the advantages of Farmers rights?
8. Give the source and health benefits of Amla
9. Give the source and interactions of Pepper.
10. Write a note on Authentication of plants.

PART - B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

11. Explain the Good Agricultural practices in cultivation of Medicinal plants.
12. Elaborate the health benefits and role of Nutraceuticals in management of Diabetes.
13. List the skin care products. Explain the raw materials of herbal origin used in skin care products.

PART - C

Note: Answer any seven questions.

(7 x 5 = 35 Marks)

14. Define the term patent. Give its objectives and criteria for patent award.
15. What are the objectives of Schedule T. Write a note on Infrastructural requirements?
16. Write a note on patenting aspects of Traditional knowledge.
17. Classify the Excipients. Write the advantages and disadvantages of herbal Excipients.
18. Explain the Curcumin case study.
19. Give an informative note on scope and future prospects of Herbal Industry.
20. Write the health benefits of Spirulina and Honey.
21. Describe the role of colorants. Elaborate different colorants of natural origin.
22. Give the sources and side effects and interactions of Hypericum.



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FACULTY OF PHARMACY

B. Pharmacy VI - Semester (PCI) (Backlog) Examination, March 2025

Subject: Medicinal Chemistry - III

Time: 3 Hours

Max. Marks: 75

PART - A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Write the mechanism of action of Pencillins?
2. Write the structure and uses of Chlortetracycline?
3. What are Macrolides, give few examples?
4. Give the applications of Prodrugs?
5. Write the structure and uses of Ciprofloxacin?
6. Write the mechanism of action of Acyclovir?
7. What are folate reductase inhibitors, give few examples?
8. Give the structure and uses of metronidazole?
9. Write the applications of combinatorial chemistry?
10. Define Partition coefficient, Hansch analysis?

PART - B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

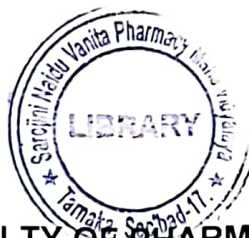
1. (a) Define antibiotics? Write the classification and SAR of Cephalosporins?
(b) Write the synthesis and uses of Chloramphenicol?
2. (a) Give the classification of antiviral agents with examples?
(b) Write the synthesis and uses of Nitrofurantion?
3. (a) Write the classification and SAR of Sulphonamides?
(b) Give the synthesis and mode of action of Diethylcarbamazine citrate?

PART - C

Note: Answer any seven questions.

(7 x 5 = 35 Marks)

4. Give a note on epimerization of Tetracyclines?
5. Write a note on β -Lactamase inhibitors?
6. Write the synthesis, mode of action and uses of Chloramphenicol?
7. Give the classification of Antimalarial agents with examples (write any one structure for each class)?
8. Write the synthesis, MOA and uses of Isoniazid?
9. What are antifungal agents? Write the synthesis of Miconazole?
10. Give a note on combinatorial chemistry?
11. Write the classification of Anti-protozoal agents? Write the structure and uses of Tinidazole and Ornidazole?
12. Write the structure, synthesis and uses of Dapsone?



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FACULTY OF PHARMACY

B. Pharmacy (PCI) VI - Semester (Backlog) Examination, March 2025
Subject: Pharmaceutical Biotechnology

Time: 3 Hours

Max. Marks: 75

PART – A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Define biosensors. Write the main components of biosensors.
2. Write a brief note on penicillinase.
3. Write about types of aerators in Fermenter.
4. What is protein engineering?
5. Differentiate exonucleases and endonucleases.
6. Describe the importance linkers and adapters.
7. Differentiate between exotoxins and endotoxins.
8. Define the following:
a. Cosmid b. Toxoid.
9. Write a note on DNA ligase.
10. What are monoclonal antibodies? Mention its uses.

PART – B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

11. Write the significance of microbial biotransformation, Explain various methods of biotransformation.
12. Discuss the production of Penicillin by fermentation process.
13. Discuss the preparation & purification of Dextran, Plasma substitute.

PART – C

Note: Answer any seven questions.

(7 x 5 = 35 Marks)

14. Discuss about PCR.
15. Describe in brief about cloning vectors.
16. Discuss type II Hypersensitivity and type III Hypersensitivity reactions.
17. Explain basic principles of genetic engineering.
18. What are mutations? Explain the types of mutations.
19. Write about IgG and IgE antibodies.
20. Describe the process of conjugation.
21. Explain the preparation of dried human plasma.
22. Explain the methods for immobilization of enzymes.
