PART – A

PART – B

Reg. No. : [redacted]

[redacted]

Time : [redacted] Max. Marks : 75

PART - A

Note : Answer all the questions. (10 x 2 = 20 Marks)

1. [redacted]
2. [redacted]
3. [redacted]
4. [redacted]
5. [redacted]
6. [redacted]
7. [redacted]
8. [redacted]
9. [redacted]
10. [redacted]

PART - B

Note : Answer any [redacted] questions. (5 x 11 = [redacted] Marks)

11. (a) [redacted]

    (OR)

    (b) [redacted]

12. (a) [redacted]

    (OR)

    (b) [redacted]

13. (a) [redacted]

    (OR)

    (b) [redacted]

14. (a) [redacted]

    (OR)

    (b) [redacted]

15. (a) [redacted]

    (OR)

    (b) [redacted]

...

UNIVERSITY OF PESHAWAR

Time: [illegible] Marks: [illegible]

Note: [illegible]

Part – I

Write Name of Responsibility [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

Part – II

[illegible] (1 × 10 = 10 Marks)

i. [illegible]

ii. [illegible]

iii. [illegible]
   a. [illegible]
   b. [illegible]

iv. [illegible]
   a. [illegible]
   b. [illegible]

v. [illegible]

vi. [illegible]

vii. [illegible]

viii. [illegible]

ix. [illegible]

x. [illegible]

[illegible]

FACULTY OF PHARMACY

[illegible]

[illegible]

[illegible] [illegible]

PART-A

[illegible] [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART-B

[illegible] [illegible]

11. [illegible]
12. (a) [illegible]
    (b) [illegible]
13. (a) [illegible]
    (b) [illegible]
14. (a) [illegible]
    (b) [illegible]
15. (a) [illegible]
    (b) [illegible]
16. (a) [illegible]
    (b) [illegible]
17. (a) [illegible]
    (b) [illegible]
18. (a) [illegible]
    (b) [illegible]

[illegible]

[illegible]

FACULTY OF PHARMACY

[illegible]

[illegible]

[illegible] [illegible]

PART-A

[illegible] [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART-B

[illegible] [illegible]

11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. [illegible]
16. [illegible]
17. [illegible]

[illegible]

18. [illegible]

OU - 1704

OU - 1704

[illegible]

[illegible] [illegible]

[illegible] [illegible]

PART-A

[illegible] [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART-B

[illegible] [illegible]

11. [illegible]

12. [illegible]

13. [illegible]

14. [illegible]

15. [illegible]

16. [illegible]

17. [illegible]

18. [illegible]

[illegible]

[illegible] [illegible]

PART A

Note : Answer all the questions. (Each 3 Marks x 5 = 15)

1. Define Diuretics. Mention the [illegible] Commissioner.
2. State the Introduction of Pharmacy Act 1948.
3. What are Narcotics & Non Narcotics drugs?
4. What are the different types of [illegible]?
5. Explain the action of [illegible] group.
6. Give the Marketing Authorization for [illegible] drug.
7. Define Drug and Cosmetic Rules and mention the [illegible] Form of Cosmetics.
8. Define [illegible] of [illegible].
9. What is [illegible] Index?
10. Write the [illegible] Medicinal Drug used in [illegible].

PART B

Note : Answer any 5 of the questions. (Each 10 Marks x 5 = 50)

11. Explain the Classification of [illegible].
12. Explain the [illegible] Committee and its [illegible] in Pharmacy Profession.
13. Explain the [illegible] of the Pharmacy Act 1948 and [illegible].
14. Explain the [illegible] of Pharmacy.
15. Define the [illegible] and explain the [illegible] of [illegible] and [illegible] of [illegible].
16. Explain the [illegible] of [illegible].
17. Explain the [illegible] of [illegible] and [illegible].
18. Explain the [illegible] and [illegible].

[illegible]

[illegible]

[illegible]

PART A

[illegible]

PART B

[illegible]

[illegible]

FACULTY OF PHARMACY

[illegible] Examinations, September 2021

Subject: Pharmaceutical Jurisprudence

Time: 3 Hours Max. Marks: [illegible]

PART A

Note: Answer all the questions. [illegible]

1. What are the Objectives of Pharmacy Act 1948?
2. What is the duty of Pharmacy Practice Committee?
3. What are the different types of D?
4. What is Registration Process?
5. Write the functions of Drug Consultative Committee?
6. Define Drug & Magic Remedies Act.
7. Give the Exemptions under Narcotic for Scheduled Drugs?
8. What is the Prescription of Good Pharmacist Right after consultation?
9. Write the Objectives of Industrial Development Act 1951?
10. Write the functions of Superintendent Analyst?

PART B

Note: Answer any five questions. [illegible]

11. Describe the Constitution & Functions of PCI.
12. Describe the procedure for Grant of Drug & Cosmetics Act 1940.
13. Define Pharmacy? Explain the Pharmaceutical education and Pharmaceutical Examination.
14. Explain the Duties and Responsibilities of Pharmacist in Hospital & Retail Pharmacy Establishments.
15. Explain the scope of pharmaceutical industry.
16. Explain the various provisions and Importance of Medicines & Drug Rules 1945.
17. Explain the provisions of Narcotic and Psychotropic Substances Act 1985 & its amendments.
18. Write the functions of Central and State Government Drug Inspectors.

[illegible]

[illegible]

[illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible]

[illegible]

[illegible] [illegible] [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

[illegible]

[illegible] [illegible] [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]

[illegible]

FACULTY OF PHARMACY

Pharm.D (Post Basic) / B.Pharm. Degree Examinations, October 2021

Subject: Pharmaceutical Formulation-I

Time: 3 Hours | Max. Marks: 70

PART – A

Note: Answer any five questions | (5 x 12 = 60 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B

Note: Answer any five questions | (5 x 10 = 50 Marks)

11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. [illegible]
16. [illegible]
17. [illegible]
18. [illegible]

[illegible]

[illegible] OF PHARMACY

[illegible] Examinations, September [illegible]

Subject: Pharmaceutics – II

[illegible] [illegible]

[illegible]

SECTION A

[illegible] Answer any five questions [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

SECTION B

[illegible] Answer any five questions [illegible]

11. [illegible]

12. [illegible]

13. [illegible]

14. [illegible]

15. [illegible]

16. [illegible]

17. [illegible]

18. [illegible]

[illegible]

FACULTY OF PHARMACY

Pharm D (6 Year) III Year [illegible] Examination, September 2021

Subject: Medicinal Chemistry

Time: 3 Hours | Max. Marks: 70

PART - A

Note: [illegible] | [illegible] Marks

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART - B

Note: [illegible] | [illegible] Marks

11. [illegible]
12. (a) [illegible]
    (b) [illegible]
13. (a) [illegible]
    (b) [illegible]
14. (a) [illegible]
    (b) [illegible]
15. (a) [illegible]
    (b) [illegible]
16. (a) [illegible]
    (b) [illegible]
17. (a) [illegible]
    (b) [illegible]
18. (a) [illegible]
    (b) [illegible]

[illegible]

FACULTY OF PHARMACY

Part-IV 2nd Year B.Pharm (PCI) Model Question Paper, September 2021

Subject: Pharmaceutical Jurisprudence – II

Time: 3 Hours Max. Marks: 75

PART – A

Note: Answer any ten questions. (10 × 5 = 50 Marks)

1. Write the duties of the members of state advisory committee for the control of spurious drugs.
2. Write a note on various committees constituted under Drugs Consultative Committee.
3. Briefly discuss the licensing authority for manufacture of Ayurvedic drugs.
4. Write on the different types of Penalties.
5. Write a note on misbranded drugs.
6. Enumerate the functions of CDSCO.
7. What is the common criteria which affects consumer complaints?
8. Write a note on the qualifications of Inspectors.
9. What are the duties of Pharmacist?
10. What is a prescription?

PART – B

Note: Attempt any five questions. (5 × 10 = 50 Marks)

11. Explain the duties, powers and functions of Drugs Control Administration.

12. Explain the procedure for grant of manufacturing licence for Ayurvedic, Siddha and Unani drugs.

13. Explain the procedure for grant of loan licence to manufacture drugs.

14. (a) Explain the procedure for grant of new drug permission.
    (b) Write the steps involved in the procedure for import of drugs.

15. (a) Explain the procedure for grant of manufacturing licence for Homoeopathic drugs.
    (b) Explain the procedure for grant of manufacturing licence for Biological products.

16. Explain the following:
    (a) Duties of Pharmacist in community pharmacy
    (b) Role of pharmacist in hospital pharmacy

17. Explain the following:
    (a) Powers of Inspectors
    (b) Duties of Inspectors

18. Write short notes on: (a) Spurious drugs (b) Misbranded drugs (c) Adulterated drugs (d) Banned drugs

[illegible]

FACULTY OF PHARMACY

[illegible]

Subject: Pharmaceutical Analysis – II

Time: 3 Hours Max. Marks: 75

PART – A

Note: Answer all the questions (10 X 2 = 20 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B

Note: Answer any five questions 5 X 10=50 Marks

11. (a) [illegible]
    (b) [illegible]
12. [illegible]
13. (a) [illegible]
    (b) [illegible]
14. (a) [illegible]
    (b) [illegible]
15. (a) [illegible]
    (b) [illegible]
16. [illegible]
17. [illegible]
18. [illegible]

Code No: [illegible]

[illegible]

[illegible]

Time: 3 Hours Max. Marks: 70

PART – A

Note: Answer all the questions [illegible] [10 x 2 = 20 Marking]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B

Note: Answer any five questions [illegible] [5 x 10 = 50 Marking]

11. [illegible]

    [illegible]

12. [illegible]

    [illegible]

13. [illegible] [illegible]

14. [illegible] [illegible]

15. [illegible]

16. [illegible]

17. [illegible]

18. [illegible]

    [illegible]

(Total No. of Pages : 02)

FACULTY OF PHARMACY

[illegible]

Subject: Pharmacology – II

Time: 3 hours | Max. Marks: 75

PART – A

Note: Answer all the questions. (10 x 2 = 20 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B

Note: Answer any five questions. (5 x 5 = 25 Marks)

11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. [illegible]
16. [illegible]
17. [illegible]
18. [illegible]

[illegible]

M.D./M.S. (Ayurveda)

[illegible]

Time : 3 Hours Max. Marks : 70

PART - A

Note : Answer all the questions (10 x 1 = 10 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART - B

Note : Answer any five questions (5 x 10 = 50 Marks)

11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. [illegible]
16. [illegible]
17. [illegible]
18. [illegible]

[illegible]

[illegible]

[illegible]

Time: 3 Hours **Max. Marks: 70**

Part – A

Note: Answer all the questions **(10 x 2 = 20 Marks)**

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

Part – B

Note: Answer any five questions **(5 x 10 = 50 Marks)**

11. (a) [illegible]
    (b) [illegible]
12. (a) [illegible]
    (b) [illegible]
13. (a) [illegible]
    (b) [illegible]
14. (a) [illegible]
    (b) [illegible]
15. (a) [illegible]
    (b) [illegible]
16. (a) [illegible]
    (b) [illegible]
17. (a) [illegible]
    (b) [illegible]

[illegible]

FACULTY OF PHARMACY

[illegible]

[illegible] [illegible]

PART – I

Note: Answer all the questions. (10 × 1 = 10 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – II

Note: Answer any five questions. (5 × 10 = 50 Marks)

11. [illegible]

12. [illegible]

13. [illegible]

14. [illegible]

15. [illegible]

16. [illegible]

17. [illegible]

[illegible]

[illegible]

Subject: Pharmacology-I

[illegible] [illegible]

PART A

[illegible] [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART B

[illegible] [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]

[illegible]

FACULTY OF [illegible]

[illegible]

Time: 3 Hours] [Max. Marks: 75

Note: Attempt five questions from Part A, any three from Part B and any two from Part C.

PART – A (5 × 5 = 25)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B (3 × 15 = 45)

11. [illegible]

12. (a) [illegible]

    (b) [illegible]

13. [illegible]

14. [illegible]

15. [illegible]

16. (a) [illegible]

    (b) [illegible]

17. [illegible]

[illegible]

FACULTY OF PHARMACY

[illegible]

[illegible]

[illegible] [illegible]

Part – A

[illegible] [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

Part – B

[illegible] [illegible]

11. a) [illegible]
    b) [illegible]

12. a) [illegible]
    b) [illegible]

13. [illegible]

14. [illegible]

15. a) [illegible]
    b) [illegible]

16. a) [illegible]
    b) [illegible]

17. a) [illegible]
    b) [illegible]

18. a) [illegible]
    b) [illegible]

[illegible]

[illegible]

FACULTY OF PHARMACY

[illegible] Examination, May 2024

[illegible]

Time: 3 Hours | Max. Marks: 75

PART – A

Answer any [illegible] questions | [illegible] Marks

1. What is Pharmacology? Explain its [illegible].
2. What is Absorption? Explain the factors affecting Absorption.
3. Define Drug Receptor Interaction.
4. What is Pharmacokinetics?
5. Write the Classification of Drugs Acting on Autonomic Nervous System.
6. Define Antacid. Explain Neutralization Test.
7. What is the significance of Bioavailability Studies?
8. What are Prerequisites of Clinical Pharmacokinetic Studies?
9. Explain the importance of Drug Interactions in Drug Therapy.
10. Define the term Controlled Substances. Explain Schedule X Substances.

PART – B

Answer any [illegible] questions | [illegible] Marks

11) Explain the Pharmacokinetic Considerations of [illegible].

12) Explain the [illegible] Structure, [illegible] Classification, Mechanism of Action and Uses of Antihistaminic Agents.

13) Explain the Schedule M of Drugs & Cosmetics Act.

14) Explain the Composition of Narcotic & Psychotropic Substances.

15) Explain the [illegible] Classification and Pharmacology of Antihypertensive Drugs.

16) Explain the [illegible] Objectives and Scope of National Drug Policy, 2023.

17) Explain the objectives, provisions and Manufacturing of Cosmetics under NDPS Act.

18) Describe various Pharmacopoeias and explain the [illegible] of Indian Pharmacopoeia.

[illegible]

[illegible]

FACULTY OF [illegible]

[illegible]

[illegible] [illegible]

[illegible]

[illegible] [illegible]

[illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

[illegible]

[illegible]

1. [illegible]

(i) [illegible]

(ii) (a) [illegible]

(b) [illegible]

(iii) (a) [illegible]

(b) [illegible]

(c) [illegible]

(iv) (a) [illegible]

(b) [illegible]

(v) (a) [illegible]

(b) [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Time: 3 Hours Max. Marks: 75

PART – A

Ans. Answer all the questions 10 × 2 = 20 Marks

1) [illegible]
2) [illegible]
3) [illegible]
4) [illegible]
5) [illegible]
6) [illegible]
7) [illegible]
8) [illegible]
9) [illegible]
10) [illegible]

PART – B

Ans. Answer any five questions. 5 × 11 = 55 Marks

11) [illegible]

12) [illegible]

13) [illegible]

14) a) [illegible]
b) [illegible]

15) [illegible]

16) [illegible]

17) [illegible]

18) [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

PART A

[illegible] [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]

PART B

[illegible] [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]

Code No. [illegible]

FACULTY OF PHARMACY

[illegible]

Subject: Pharmaceutical Analysis

Time: 3 Hours | Max. Marks: 75

Note: [illegible]

PART – A (20 Marks)

1. What are the different [illegible]?
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. What are the different [illegible]?

PART – B [illegible]

11. [illegible]

12. a) [illegible]
b) [illegible]

13. [illegible]

14. [illegible]

15. [illegible]

16. a) [illegible]
b) [illegible]

17. a) [illegible]
b) [illegible]

18. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Part – A

[illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

Part – B

[illegible]

11. (a) [illegible]
    (OR)
    (b) [illegible]

12. (a) [illegible]
    (OR)
    (b) [illegible]

13. [illegible]

14. [illegible]

15. (a) [illegible]
    (OR)
    (b) [illegible]

16. (a) [illegible]
    (OR)
    (b) [illegible]

17. (a) [illegible]
    (OR)
    (b) [illegible]

18. (a) [illegible]
    (OR)
    (b) [illegible]

[illegible]

FACULTY OF PHARMACY

[illegible] Examination, May 2024

[illegible]

Time: 3 Hours | Max. Marks: 75

PART – A

Answer any [illegible] questions | [illegible] Marks

1. What is Pharmacology? Explain its [illegible].
2. What is Absorption? Explain the factors affecting Absorption.
3. Define Drug Receptor Interaction.
4. What is Pharmacokinetics?
5. Write the Classification of Drugs Acting on Autonomic Nervous System.
6. Define Antacid. Explain Neutralization Test.
7. What is the significance of Bioavailability Studies?
8. What are Prerequisites of Clinical Pharmacokinetic Studies?
9. Explain the importance of Drug Interactions in Drug Therapy.
10. Define the term Controlled Substances. Explain Schedule X Substances.

PART – B

Answer any [illegible] questions | [illegible] Marks

11) Explain the Pharmacokinetic Considerations of [illegible].

12) Explain the [illegible] Structure, [illegible] Classification, Mechanism of Action and Uses of Antihistaminic Agents.

13) Explain the Schedule M of Drugs & Cosmetics Act.

14) Explain the Composition of Narcotic & Psychotropic Substances.

15) Explain the [illegible] Classification and Pharmacology of Antihypertensive Drugs.

16) Explain the [illegible] Objectives and Scope of National Drug Policy, 2023.

17) Explain the objectives, provisions and Manufacturing of Cosmetics under NDPS Act.

18) Describe various Pharmacopoeias and explain the [illegible] of Indian Pharmacopoeia.

[illegible]

[illegible]

FACULTY OF [illegible]

[illegible]

[illegible] [illegible]

[illegible]

[illegible] [illegible]

[illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

[illegible]

[illegible]

1. [illegible]

(i) [illegible]

(ii) (a) [illegible]

(b) [illegible]

(iii) (a) [illegible]

(b) [illegible]

(c) [illegible]

(iv) (a) [illegible]

(b) [illegible]

(v) (a) [illegible]

(b) [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Time: 3 Hours Max. Marks: 75

PART – A

Ans. Answer all the questions. 10 × 2 = 20 Marks

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B

Ans. Answer any five questions. 5 × 11 = 55 Marks

11. [illegible]

12. [illegible]

13. [illegible]

14. a) [illegible]
    (or)
    b) [illegible]

15. [illegible]

16. [illegible]

17. [illegible]

18. [illegible]

[illegible]

[illegible]

[illegible]

Time: 3 Hours Max. Marks: 75

Note: Answer any six questions from Part-A, any four questions from Part-B

PART - A (6 x 5 = 30 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART - B (4 x 11 = 44 Marks)

11. (a) [illegible]
    (b) [illegible]

12. (a) [illegible]
    (b) [illegible]

13. (a) [illegible]
    (b) [illegible]

14. [illegible]

15. [illegible]

16. [illegible]
    (a) [illegible]
    (b) [illegible]

17. [illegible]
    (a) [illegible]
    (b) [illegible]

18. (a) [illegible]
    (b) [illegible]

Code No: 13481

FACULTY OF PHARMACY

[illegible]

Subject: Pharmaceutical Formulation-I

Time: 3 Hours | Max. Marks: 70

PART - A

Note: Answer any six questions. 6 x 5 = 30 Marks

1. Differentiate between OTC and ECC.
2. Discuss preparation of chalk mixture and its pharmaceutical applications.
3. Define bloom strength and its significance.
4. Define diffusion and discuss various factors affecting diffusion process.
5. Explain emulsifiers used in parenteral dosage forms.
6. What are the various applications of viscosity?
7. Discuss in brief the role of pharmaceutical excipients in the development of stable dosage form development.
8. Differentiate between Newtonian and Non-Newtonian flow.
9. List out various methods of sterilization.
10. Give two examples of each of the following: Hygroscopic and non-hygroscopic.

PART - B

Note: Answer any five questions. 5 x 8 = 40 Marks

11. What are the different granulating techniques? Discuss comparative merits of wet granulation over dry granulation.

12. Define [illegible] Discuss in detail the factors affecting the [illegible]

13. [illegible] Discuss in detail the [illegible] Explain the [illegible]

14. Explain in detail the [illegible]

15. Discuss in detail the [illegible] Explain the [illegible]

16. Write short notes on: [illegible]

17. Discuss in detail the [illegible]

18. Write short notes on: a) [illegible] b) [illegible]

FACULTY OF PHARMACY

Regulations (Revised) 2012 (Semester Pattern) with effect from October 2012

M.Pharm. Pharmaceutical Analysis

Time: 3 Hours Max. Marks: 70

Note: Answer any five questions from Part-A and any four questions from Part-B

PART – A (5 × 12 = 60 Marks)

1. Write a Descriptive Note on
2. Define Pharmacopoeia and Give Its Functions
3. Write the Principle of Spectrometric Analysis
4. Define Standardization
5. Write the objectives of Drug & Magic Remedies Act
6. Write the objectives of Narcotic drugs and Psychotropic Act, 1985
7. Give the Brief Note on Importance of Quality Control Laboratory
8. Write the Process of Preparation and Packing of Drugs
9. Write the Functions of Animal Ethical Committee
10. Write the Role of Pharmacovigilance in Drug Regulation

PART – B (4 × 10 = 40 Marks)

11. Explain the Organization & Functions of IP?

12. Explain in detail about the Schedules of Drugs & Cosmetics Act?

13. Explain in detail about Drug Inspectors in Pharmaceutical Analysis Laboratory?

14. Explain in detail about the Schedule-M in Drugs & Cosmetics Act?

15. Explain in detail about Clinical Research Coordinator (CRC)?

16. What is the Patient Time in detail the procedure for getting Patent.

17. What are the Powers of Duties of Drug Inspector?

18. Explain in detail of permission of Import of Animal Act?

Code No. 2310

FACULTY OF PHARMACY

Pharm.D (PB Tech.) (S.TDC.) Regular/Supplementary Examinations, October 2021

Subject: Pharmacology - II

Time: 3 Hours Max. Marks: 70

PART-A

Note: Answer any five questions. (5 x 2 = 10 marks)

1. Write a note on Acute toxicity study as per OECD guidelines.
2. Explain the mechanism of action of Ketoconazole.
3. Define Antagonism. Explain PA.
4. Write the pharmacological actions of Insulin.
5. Write Safety assessment of Nanoparticles.
6. Write the mechanism of action of Methotrexate.
7. Write a note on Cytochrome P450 and its significance.
8. Define Incubation, Metabolic stability and Half life.
9. Write the clinical uses of Antidepressants and Antipsychotics.
10. Write a note on Vaccines.

PART-B

Note: Answer any four questions. (4 x 15 = 60 marks)

11. Classify anti-epileptic drugs. Write the Pharmacology of Phenytoin and Valproate.
12. Classify Anti-viral drugs. Write the Pharmacology of Oseltamivir and Lamivudine.
13. Classify Anti-cancer agents. Write the pharmacology of Alkylating agents.
14. Define Bioavailability. Discuss in vitro methods to determine bioavailability.
15. Pharmacology of Cytochrome P450 enzymes.
16. Write a note on Clinical trials. Discuss the phases of Clinical trials.
17. Discuss glucose and lipid metabolism.
18. Write a note about DNA sequencing and discuss it in relation to quality.

Code No: 13481

M.PHARMACY

(Regulation 13 and 14 are applicable to Distance Learning Candidates admitted from Academic Year 2013-14)

Second Semester Examinations – I

Time: 3 Hours Max. Marks: 75

Note: Answer any ten questions from Part-A, answering any two questions from Part-B. Part-A (10 x 2 = 20 Marks)

1. Write on the dynamic nature of drug
2. Write on the various types of isomerism
3. Write on physicochemical properties of drugs
4. Write a note on classification of antibiotics and its mechanism of action
5. Write on the factors affecting the stability of drugs
6. Explain the factors involved in the solubility of drugs
7. Write a note on the various classes of drugs used in the treatment of cardiovascular diseases
8. Write on the various classes of drugs used in the treatment of diabetes mellitus
9. Write a note on the various classes of drugs used in the treatment of CNS disorders
10. What is the role of medicinal chemist in drug discovery?

Part-B (5 x 11 = 55 Marks)

11. (a) Write on the basic principles of structural activity relationship
    (b) Write on the different types of drug interactions and its importance in drug design

12. (a) Write on the general mechanism of action of antibiotics
    (b) Write a note on the general principles of antibiotics in various systems

13. (a) Write the various chemical reactions involved in the degradation of
    (b) Explain the factors affecting the stability of drugs

14. (a) Write on the various classes of drugs used in the treatment of
    (b) Write a note on the treatment of malaria

15. (a) Write on the various classes of drugs used in the treatment of
    (b) Write on the mechanism of action of

16. Write a note on Retrovirology and AIDS

17. Write a note on the various classes of drugs used in the treatment of cancer and explain the mechanism of action of any two of them

Code No. 6131

[illegible]

[illegible]

Time : 3 Hours Max. Marks : 75

Note : Answer all the questions from Part A, any seven questions from Part B and any three questions from Part C.

PART – A (10 × 2 = 20 Marks)

1. What are Syndicate Board Directors? As per Companies Act, 2013?
2. Define Initial Statutory Meeting? As per Companies Act, 2013?
3. What is [illegible]?
4. What is meant by MOA and how it is executed?
5. Define Promoters & Duties?
6. Write the meaning of Prospectus? Explain Types of Prospectus?
7. What are Preliminary Expenses? Explain Its Features?
8. Define the meaning of Underwriters & Explain underwriting agreement as per Companies Act, 2013?
9. What are Provisions of Corporate Governance Act, 2013?
10. Define Copyright and Trademark?

PART – B (5 × 8 = 40 Marks)

11) What are the Contents and Functions of Memorandum of Association (MOA)? Explain. (8 M)

12) Describe the qualifications required for Company Secretary as per Companies Act. (8 M)

13) What is Corporate Accounting? Explain the objectives and Characteristics of Corporate Accounting. (8 M)

14) What are the Environmental Quality Standards Act, 1986. (8 M)

15) Explain the procedure for obtaining Trademark? Explain the Rights and Duties of Trademark Registration? (8 M)

16) a) What are the objectives of Incorporation and Promotion? Explain Steps and Legal Formalities for Incorporation? (5)
b) Explain the functions of Company Secretary? (3)

17) What are the provisions of Constitution of Corporate Governance Act, 2013? Explain the Composition of Corporate Governance Committee? (8 M)

18) Explain the Features, Merits and Demerits of Patents? What are the procedures for obtaining Patents? (8 M)

[illegible]

[illegible] PROGRAMME

[illegible] Examination, February 2021

Subject : Medicinal Chemistry

Time : 3 Hours | Max. Marks : 70

Attempt any seven questions from Part - A answering any five questions from Part B.

PART – A (10 × 2 = 20 Marks)

1. [illegible]
2. Write the synthesis of Ibuprofen.
3. [illegible] Write the mechanism of action of benzodiazepine anxiolytic drug.
4. What is an antiseptic agent? Give example.
5. Draw the structure of : (a) Cisplatin (b) Cyclophosphamide
6. Explain [illegible] with suitable example.
7. Write the preparation and structure of Theophylline.
8. What is Cotrimoxazole? Give the therapeutic use of cotrimoxazole.
9. Name any three vitamins with their deficiency symptoms :
   (a) [illegible] (b) [illegible]
10. Define antiseptic and disinfectant with example.

PART – B (5 × 10 = 50 Marks)

11. What is sulfonamide and sulfanilamide? Explain in detail the SAR of sulfonamides and sulfanilamide. (10)

12. (a) Give the classification of antihypertensive drugs. (5)
    (b) Write the synthesis of any [illegible] antihypertensive. (5)

13. Classify H2-blockers. Write the synthesis of any one of them in detail. (10)

14. (a) Write the synthesis of [illegible] : (5)
    (i) Penicillin (ii) Ranitidine
    (b) What is Cephalosporin? (5)
    (i) Explain its mode of action. (ii) Give its use.

15. (a) What are the [illegible] of action of DNA as a drug target? (5)
    (b) What [illegible] of action are involved in [illegible] (5)

16. What is [illegible]? What are the [illegible] of [illegible] drugs? Explain in detail the classification of [illegible] drugs with [illegible]. (10)

17. (a) Classify [illegible] drugs with examples. (5)
    (b) Write the synthesis and [illegible] of [illegible] (5)
    (i) Diazepam (ii) Phenobarbitone

18. (a) Classify [illegible] agents with examples. (5)
    (b) Write the synthesis and [illegible] of [illegible] (5)
    (i) Paracetamol (ii) Chloroquine

[illegible]

[illegible]

FACULTY OF PHARMACY

[illegible]

Time: 3 hours Max. Marks: 75

Note: Answer all questions from Part-A & any five questions from Part-B

PART - A (10 × 2 = 20 Marks)

1. Define Pharmacology and write its scope.
2. Define enzyme and write its role in drug action.
3. Define volume of distribution and write its significance.
4. Differentiate between agonist and antagonist.
5. Explain the term drug tolerance and write its mechanism.
6. Define agonist and write its types.
7. Explain the concept of pharmacokinetics.
8. Define bioavailability and write its significance.
9. Explain the term half-life and write its importance.
10. Define therapeutic index and write its significance.

PART - B (5 × 10 = 50 Marks)

11. Explain the principles and routes of drug administration. 10

12. a) Explain the mechanism of drug absorption. 5
b) Define and explain the factors affecting absorption of drugs. 5

13. a) Define and explain the concept of drug distribution. 5
b) Explain the factors affecting distribution of drugs in the body. 5

14. Explain the concept of drug metabolism and its significance. 10

15. Define and explain the concept of drug antagonism and its types. 10

16. Explain the concept of drug elimination and its significance. 10

17. Explain the pharmacological actions of the following drugs: 10
a) Paracetamol
b) Ibuprofen
c) Diclofenac
d) Aspirin
e) Indomethacin

Code No. 6127

[illegible]

[illegible] Term) (CBCS) B.Tech. (Hons) Electrical Engineering 2021

Subject: [illegible]

Time : 3 Hours

Max. Marks: 70

Note : Answer all the questions from Part-A, any FIVE from Part-B and any THREE from Part-C.

PART-A (5×2=10 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART-B (5×10=50 Marks)

11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. [illegible]
16. [illegible]
17. [illegible]
18. [illegible]

PART-C (3×20=60 Marks)

19. [illegible]
20. [illegible]
21. [illegible]

(Code: EC 502)

[illegible]

[illegible]

[illegible] Hours [illegible] Max. Marks: 70

PART - A

[illegible] [illegible] [illegible] [illegible] (2 × 10 = 20 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART - B

[illegible] [illegible] [illegible] [illegible] (5 × 8 = 40 Marks)

11. [illegible]

12. [illegible]
    a. [illegible] b. [illegible]

13. [illegible]
    a. [illegible]
    b. [illegible]

14. [illegible]
    a. [illegible]
    b. [illegible]

15. [illegible]
    a. [illegible]
    b. [illegible]

16. [illegible]
    a. [illegible]
    b. [illegible]

17. [illegible]

18. [illegible]

(Pages: 2)

(Name)

(Reg. No.)

(Time: 3 hours)

(Max. Marks: 75)

PART A

Note: Answer any 10 questions.

(10 × 3 = 30 Marks)

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

PART B

Note: Answer any 5 out of 8 questions.

(5 × 7 = 35 Marks)

11.

12.

13.

14.

15.

16.

17.

18.

(CBCS Scheme)

USN

Visvesvaraya Technological University

Belagavi, Karnataka-590018

Course Title

Time: 3 Hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module - 1

1 a. What is Lasers?

b. Define Spontaneous and Stimulated emission.

c. What are the applications of Ruby Laser? Explain any one?

d. Define Coherence?

e. What are the Properties of Laser?

f. Why are Optical fibers of cylindrical cross section? Explain.

g. Define Numerical Aperture. Derive an expression for Numerical Aperture.

h. What are the Types of Optical fibers? Explain any one type with neat diagram.

i. What are the Applications of Optical Fibers?

j. Explain the Construction and working of Ruby Laser with energy level diagram.

Module - 2

2 a. Explain the Construction and working of He-Ne Laser?

b. Explain the various losses associated with optical resonator.

c. Explain the Basic Components of Optical Communication System with a neat block diagram.

d. Explain the working principle and Construction of Semiconductor Laser.

e. Explain the Basic principle of Photonic Crystals. Mention any two applications.

f. Explain the Construction and working of Optical Fiber Sensor.

g. Explain the Principle and Working of Optical Switch.

h. Explain the Principle and Construction of Optical Modulator.

i. What are the Advantages of Optical Fiber Communication?

(CBCS/OC/SC)

[illegible]

[illegible]

Subject: [illegible]

[illegible] [illegible]

PART A

Note: Answer any [illegible] questions. [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. Define the following ability patterns of intervening:
   a) Obeying b) Clapping and Jumping
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART B

Note: Answer any [illegible] questions. [illegible]

11. [illegible]
    a) [illegible] b) [illegible]
12. (a) [illegible]
    (b) [illegible]
13. [illegible]
14. [illegible]
15. (a) [illegible]
    (b) [illegible]
16. (a) [illegible]
    (b) [illegible]
17. (a) [illegible]
    (b) [illegible]

[illegible]

Code No: [illegible]

[illegible]

Pharm.D (PB) [illegible] Medicinal Chemistry

Subject: Medicinal Chemistry

Time: 3 Hours | Max. Marks: 75

PART - A

Note: Answer any **ten** questions | 10 * 3 = 30 Marks

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART - B

Note: Answer any **Five** questions | 5 * 9 = 45 Marks

11. a) [illegible]
    b) [illegible]
12. a) [illegible]
    b) [illegible]
13. [illegible]
14. a) [illegible]
    b) [illegible]
    c) [illegible]
15. a) [illegible]
    b) [illegible]
16. a) [illegible]
    b) [illegible]
17. a) [illegible]
    b) [illegible]
18. a) [illegible]
    b) [illegible]

Code No. 1202

FACULTY OF PHARMACY

Master of Pharmacy (Pharmaceutical Analysis) Examination, November 2014

Subject : Pharmacognosy - II

Time : 3 Hours | Max. Marks : 70

PART - A

Note : Answer any SIX questions. (6 x 5 = 30 Marks)

1. Write briefly about fumitory and its uses.
2. Write note on common substances in opium.
3. Write note on Ayurveda and its uses of Glycyrrhiza.
4. Define Phytochemical constituents and write Pharmacological activities.
5. Write note on Ashwagandha and its uses.
6. Explain briefly about Ginseng and its uses.
7. Write note on Cinchona and its uses.
8. Write note on Ergot and its uses.
9. Write note on Belladonna and its uses.
10. Write briefly about uses of Nux vomica and its uses.

PART - B

Note : Answer any Five questions. (5 x 8 = 40 Marks)

11. Classify alkaloids and write about Belladonna group of alkaloids and its pharmacological activities. Write about the uses of Belladonna.

12. Write about the cultivation, collection, preparation and uses of Senna.

13. a) Write about the types of Cinchona and write about the preparation and uses of Cinchona bark.
    b) Write about the uses of Cinchona bark.

14. a) Write about the chemical constituents of Tinospora cordifolia.
    b) Write about the uses of Tinospora cordifolia.

15. Explain about the processing of Tinospora cordifolia.

16. Explain about the cultivation and collection of Ergot.

17. Write about the uses of
    a) Cloves and its uses
    b) Cinnamon and its uses

18. a) Write about the chemical constituents of Nux vomica.
    b) Write about the uses of Nux vomica.

Code No. 0201

[illegible]

[illegible] | July 2024

[illegible]

Time : 3 Hours | Max. Marks : 70

Note : Answer all the questions from Part-A, answer any five questions from Part-B.

PART – A (10 × 2 = 20 Marks)

1. What is the commonly used symbol for Lead-Acid storage cell?
2. Write down the uses of Electrodes.
3. What is the unit used for Conductance?
4. Define unit cell and explain its importance in crystal structure.
5. Classify Ionic Conductors.
6. Write down the principle of Conductometric titrations.
7. Define EMF.
8. What is the name of the apparatus used for measuring electromotive force of a galvanic cell? Explain the working of this apparatus.
9. What are the common effects of Electromagnetic radiation?
10. What is the importance of Ozone layer?

PART – B (5 × 8 = 40 Marks)

11. (a) Explain the working principle of Primary cell with suitable example. (4)
    (b) What are the applications of Lead-acid storage cell? Explain any one application in detail. (4)

12. Write short notes on : (a) Ag/AgCl electrode (b) Hydrogen electrode (8)

13. (a) Explain the principle and working of Potentiometric titrations. (4)
    (b) What are the advantages of Potentiometric titrations over conventional titrations? (4)

14. (a) Explain the principle and working of Conductometric titrations. (4)
    (b) What are the applications of Conductometric titrations? Explain any one application in detail. (4)

15. (a) Explain the principle and working of Polarography. (4)
    (b) What are the advantages of Polarography over conventional titrations? (4)

16. Explain the principle, working and applications of Potentiometric titrations. (8)

17. (a) Explain the working principle of Amperometric titrations. (4)
    (b) Explain the principle, working and applications of Coulometric titrations with suitable examples. (4)

[illegible]

FACULTY OF PHARMACY

[illegible]

[illegible]

[illegible] [illegible]

[illegible]

PART - A [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART - B [illegible]

11. [illegible]
12. [illegible]
13. a) [illegible]
    b) [illegible]
14. [illegible]
15. [illegible]
16. [illegible]
17. [illegible]
18. [illegible]

[illegible]

Code No: 0331

R13

B.Pharmacy VIII Semester Supplementary Examinations, July/Aug 2021

Subject: Pharmaceutical Formulation

Time: 3 Hours Max. Marks: 70

Note: Answer all questions from Part-A. Answer any Five questions from Part-B

PART – A (10 × 2 = 20 Marks)

1. What is a suspension? Give examples.
2. Explain the advantages and disadvantages of tablets.
3. Define sterilization. Explain the principle and mechanism of moist heat sterilization.
4. Write a note on different types of tablet granulation and their characteristics.
5. Explain the instability of emulsions.
6. Explain the different methods involved in size reduction of powders.
7. Define granulation. Give any two methods of granulation.
8. Write the importance of displacement volume of excipients in designing formulations.
9. Explain the role of preservatives in suspensions.
10. Write a note on pyrogenicity.

PART – B (5 × 10 = 50 Marks)

11. (a) What is a liquid oral dosage form? Write down the classification with examples. 5

(b) Explain the evaluation tests for suspensions. 5

12. What is sterilization? Explain the principle of hot gaseous sterilization? Describe the construction and working principle of sterilization of hot gaseous oven. 10

13. (a) Explain the formulation of dispersible tablets. 5

(b) (i) Write the various ingredients used in the formulation of topical ointments. 3
(ii) Describe the ointment bases and its preparation. 2

14. Explain the quality control tests for emulsions. 10

15. Explain the formulation, packaging and labelling of solid pharmaceuticals. 5+5

16. What are the tests carried out for evaluation of controlled drug delivery systems? Write a brief note on in vitro tests. 5+5

FACULTY OF PHARMACY

Diploma (B.Pharm) Examinations (Regular/Supplementary) July 2017

Subject : Medicinal Chemistry

Time : 3 Hours | Max. Marks : 75

Instructions : Answer all questions from Part - A. Answering any 5 questions from Part - B

1. Write the importance of Green Chemistry in pharmaceutical industry.
2. Write the significance of Calorimetry.
3. What is SDS? Explain?
4. Explain the principle involved in the estimation of boron content.
5. Explain the principle involved in estimation of nitrogen.
6. Explain the principle, technique, instrumentation and applications of Gas Chromatography.
7. Explain the principle and working of Flame Photometer.
8. Explain the principle and working of Polarography.
9. Write the principle involved in the estimation of Sodium by Flame Photometry.
10. Write a note on Analytical Validation.

PART - B (5 × 10 = 50 Marks)

11. Discuss Green Chemistry principles in pharmacy. (10)

12. a) Classify electromagnetic spectrum. (5)
    b) Explain the principle involved in estimation of iron by Atomic Absorption Spectroscopy. (5 or 10)

13. a) Give the classification of electrochemical methods. (5)
    b) Explain the Gas Chromatography instrumentation and its working principle. (5 or 10)

14. a) Classify the UV-Visible spectroscopy. How do you estimate phenol by UV-Visible spectroscopy? (5+5=10)
    b) Explain the principle involved in estimation of Sodium by Flame Photometry. (5 or 10)

15. a) Explain the principle involved in estimation of Iodine by Titrimetry. (5)
    b) Explain the principle involved in estimation of Iodine by Potentiometry. (5)

16. a) Explain the principle involved in estimation of Nitrogen by Kjeldahl's method. (5)
    b) Explain the principle involved in estimation of Sodium by Flame Photometry. (5)
    c) Explain the principle involved in estimation of Boron by Titrimetry. (5)

17. Write short notes on the following : (5×2=10)
    a) Biosensors (any one) b) Radiometry c) Polarography d) Chromatography

18. a) Explain the principle involved in estimation of Iodine by Titrimetry. (5)
    b) Explain the principle involved in estimation of Nitrogen by Kjeldahl's method. (5)

Code No. 0000

Roll No.

Name of the Candidate

Name of the Examination and Year

Subject : Mathematics

Max. Marks : 75

Note : Answer all the questions from Part-A, answer any five questions from Part-B.

PART – A (10 × 2 = 20 Marks)

1. Write down the Cauchy-Riemann equations.
2. Define Laurent's series.
3. Write the Cauchy's integral formula.
4. Write down the Taylor's and Laurent's series.
5. Define Residue and Pole.
6. Find the singularities and determine its nature of $f(z) = \frac{z}{(z-1)^2(z+2)}$.
7. Find the residue at the poles of $f(z) = \frac{1}{z^2+1}$.
8. State Cauchy's residue theorem.
9. Find the Bilinear transformation that maps $z = 0, -1, \infty$ into $w = i, 0, -i$.
10. Define Conformal mapping.

PART – B (5 × 11 = 55 Marks)

11. Explain the Cauchy-Riemann equations in polar form. (11)

12. Show that the function $u = x^2 - y^2 - y$ is harmonic. Find the corresponding analytic function $f(z) = u + iv$ and express $f(z)$ in terms of z. (11)

13. Evaluate $\int_C \frac{z^2+1}{z^2-1} dz$ where C is the circle $|z-1| = 1$ using Cauchy's integral formula. (11)

14. Expand $f(z) = \frac{1}{(z-1)(z-2)}$ in the region $1 < |z| < 2$. (11)

15. Evaluate $\int_0^{2\pi} \frac{d\theta}{5+4\cos\theta}$ using residue theorem. (11)

16. (a) Find the image of the circle $|z| = 2$ under the transformation $w = z + 3 - 2i$. (6)
(b) Find the image of the circle $|z| = 1$ under the transformation $w = \frac{z-1}{z+1}$. (5)

17. Find the bilinear transformation that maps the points $z = 1, i, -1$ into the points $w = 0, 1, \infty$. (11)

18. Find the bilinear transformation that maps the points $z = 0, 1, \infty$ into the points $w = -5, -1, 3$. (11)

Code No. 0000

B.Pharm. Degree Examinations

(Regular / Supplementary / Improvement) (New / Old Regulations) (Common to ...) Examinations, ...

Subject : Pharmaceutical Analysis - ...

B.Pharm. – ... Semester Max. Marks: 70

Note : Answer all the questions from Part-A. Answer any five questions from Part-B.

PART – A (10 × 2 = 20 Marks)

1. Write the principle involved in Kjeldahl's method?
2. Define saponification value?
3. Name a reagent used in the assay of ...?
4. Write the structure of ... and ...?
5. Write the structure of ...?
6. Write the principle involved in ...?
7. Explain the principle involved in the estimation of ... by complexometric titration?
8. Write the composition of ... and its uses?
9. Explain the principle involved in ... titration?
10. Write the principle involved in ... Chromatography?

PART – B (5 × 12 = 60 Marks)

11. a) ...
    b) ... (OR)

12. ...

13. ...

14. ...

15. a) ...
    b) ... (OR)

16. ...

17. ...

18. ...

[illegible]

FACULTY OF PHARMACY

[illegible]

[illegible]

[illegible]

[illegible]

PART – A (10 × 2 = 20 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B (5 × 16 = 80 Marks)

11. [illegible]

12. [illegible]

13. [illegible]

14. [illegible]

15. [illegible]

16. [illegible]

17. [illegible]

18. How do you classify drugs? Describe the drugs used in respiratory tract. Write the pharmacological action of any one drug.

[illegible]

Code No. 1704

FACULTY OF PHARMACY

Pharmacy Degree Course – I YEAR (Main & Backlog) Examinations, June 2019

Subject: Anatomy and Physiology

Time: 3 Hours Max. Marks: 70

Note: Answer all questions from Part – A, any Five questions from Part – B

PART – A (5 × 2 = 10 Marks)

1. Define homeostasis with example.
2. Mention the types of hemoglobin present in adult.
3. Draw and label the different types of muscle tissue.
4. Define the terms: (a) Pitch (b) Loudness
5. Define the terms: (a) Refractive error (b) Myopia (c) Astigmatism
6. Name the hormones secreted by anterior pituitary gland.
7. Name the hormones secreted by adrenal medulla.
8. Classify and write the types of joints.

PART – B (4 × 10 = 40 Marks)

9. a) Describe the structure of a typical neuron with a neat diagram. 6
   b) Write short notes on: 4
      i) Cell membrane
      ii) Mitochondria

10. a) Define the term: Blood pressure. Describe the factors affecting blood pressure. 6
    b) What are the different types of blood cells? Describe the structure and functions of erythrocytes. 4

11. a) Define the term: Cardiac cycle. 2
    b) What are the different stages of Electrocardiogram? Describe them briefly with a neat labelled diagram. 8

12. Write short notes on: 10
    i) Hemoglobin
    ii) Leucocytes
    iii) Blood groups
    iv) Thrombocytes

13. a) Define the term: Hearing. 2
    b) What are the different types of hearing loss? Describe any one in detail. 8

14. a) Define the term: Vision. 2
    b) Write the structure of eye. 8

15. a) Name the hormones secreted by posterior pituitary gland. Write the functions of any two hormones. 4
    b) Define the term: Goitre. Describe the types of goitre. 6

16. Write short notes on: 10
    a) Functions of liver
    b) Functions of kidney

17. a) Describe the different types of muscle tissue. 7
    b) Write the functions of skeletal system. 3

[illegible]

FACULTY OF PHARMACY

[illegible]

[illegible]

[illegible]

Note: Answer all questions from Part – A, any Five questions from Part – B

PART – A (Qn 1 – 10 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B (Qn No 11 to 16)

11. [illegible]

12. [illegible]

13. [illegible]

14. [illegible]

15. [illegible]

16. [illegible]

[illegible]

[illegible]

Code No.: 1234

FACULTY OF PHARMACY

[illegible] – I Year Degree Examinations, July 2024

Second Pharmaceutical Analysis

Time: 3 Hours | Max. Marks: 70

[illegible] PART – A [illegible] 10 Marks

1. Write any two applications of [illegible]
2. Define [illegible] and give [illegible]
3. Explain [illegible] of [illegible] in [illegible]

4. Define [illegible]
5. [illegible]
6. Write [illegible]
7. Explain [illegible]
8. List out [illegible]
9. Define [illegible]
10. Write [illegible]

PART – B [illegible] Marks

11 Write [illegible]
   a) [illegible]
   b) [illegible]

12) [illegible]

13) [illegible]

14) [illegible]

15) [illegible]

16) [illegible]

17) [illegible]

18) a) [illegible]
   b) [illegible]

Code No: [illegible]

FACULTY OF PHARMACY

[illegible] Examinations – Pharmaceutical Biochemistry, Pharmaceutical Chemistry

Subject : Physical Chemistry-I

Time: [illegible] Max Marks: 70

Note: Answer all questions from Part-A & any five questions from Part-B

Part-A (7 x 2 = 14 Marks)

1. Differentiate between Precision and Accuracy.
2. What is the common ion effect? Explain.
3. What is the role of buffer solutions in the treatment of chemotherapeutic agents (drugs)?
4. What are the various types of solutions?
5. Explain Henry's law and its application in pharmaceutical industry.
6. What is the common difference between Hydrogen bonding and Van der Waals forces of attraction?
7. Explain the colligative properties and their importance in pharmacy.
8. Define Osmotic pressure and give its SI unit.
9. What is pH of a solution?
10. Name any two applications of Hydrogen bonding in pharmaceutical industry.

Part-B (5 x 10 = 50 Marks)

11. a) Discuss in detail the pharmaceutical importance of Buffers. [5]
    b) What is the significance of colligative properties? [5]

12. Write short notes on: a) Osmotic pressure b) Solubility of gases c) Solubility of solids [10]

13. a) What is meant by the thermodynamic treatment of the chemical reactions? [5]
    b) What are the important applications of Hess's law in biological systems? [5]

14. a) What is meant by Hydrogen bonding? Explain its significance in pharmaceutical industry. [5]
    b) Write briefly on the properties of the solutions. [5]

15. a) What is the principle involved in the solubility of [illegible] [5]
    b) Write a note on the effect of temperature on [illegible] [5]

16. Write short notes on [illegible] [10]

17. a) What is the role of [illegible] in the treatment of [illegible] [5]
    b) Write a note on [illegible] and its applications [5]

18. Write short notes on:
    a) [illegible] b) [illegible] [10]

Code No: [illegible]

FACULTY OF [illegible]

[illegible]

Subject: [illegible]

Time: [illegible] Max Marks: [illegible]

Note: [illegible]

PART – A [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B [illegible]

11 [illegible] [illegible]

12 [illegible] [illegible]

13 [illegible] [illegible]

14 [illegible] [illegible]

15 [illegible] [illegible]

16 [illegible] [illegible]

17 [illegible] [illegible]

18 [illegible] [illegible]

Subject Code: [illegible]

[illegible]

[illegible]

Subject: [illegible]

Time: 3 Hours | Max. Marks: 70

Note: Answer all 11 questions from Part – A and answer any five questions from Part – B.

PART – A (11 × 2 = 22 Marks)

1. Write any two practical examples of basic logic gates.
2. Explain the [illegible] of octal and hexadecimal number systems with examples.
3. Write two applications each of Demultiplexers and Decoders.
4. Write any two applications of ROM.
5. Name two technologies of semiconductor memories.
6. Write [illegible] of a counter and [illegible] used in communication [illegible] system.
7. Write two applications each of shift registers.
8. Mention the classification of [illegible].
9. Explain the [illegible] of addressing modes of 8051 microprocessor.
10. Write any two applications of Microprocessor system.

PART – B (5 × 10 = 50 Marks)

11. (a) Give the classification of software along with [illegible] giving two examples for each category.

    (OR)

    (b) Explain DOS and its [illegible] of system software.

12. (a) Explain the [illegible] of

    (i) Decimal

    (ii) [illegible]

    (OR)

    (b) (i) Explain the [illegible] of [illegible] using [illegible] with [illegible] example.

    (ii) Write any [illegible] of [illegible].

13. (a) Write the [illegible] of

    (i) [illegible]

    (ii) [illegible]

    (OR)

    (b) (i) Explain the [illegible] of [illegible] with [illegible].

    (ii) Explain [illegible] with [illegible].

14. (a) Explain the classification of [illegible] giving two [illegible] for each.

    (OR)

    (b) Explain [illegible] with [illegible].

15. (a) Explain the [illegible] of [illegible] and [illegible] of [illegible].

    (OR)

    (b) Explain the [illegible] of

    (i) [illegible]

    (ii) Timer/counter

    (iii) Serial [illegible]

16. (a) Write short notes on

    (i) [illegible] [illegible]

    (ii) [illegible]

    (OR)

    (b) [illegible]

Code No. [illegible]

FACULTY OF PHARMACY

[illegible]

Subject: Pharmaceutical Jurisprudence

Time: 3 Hours | Max. Marks: 75

Note: Answer all questions from Part - A and answer any five questions from Part-B.

PART – A [illegible]

1. [illegible]
2. What are [illegible]?
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible] Drug Consultative Committee.
7. What is Loan License?
8. [illegible]
9. [illegible]
10. [illegible]

PART – B [illegible]

11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. [illegible]
16. [illegible]
17. [illegible]
18. [illegible]

Code No. 1111

[illegible]

[illegible] – [illegible]

[illegible]

[illegible] [illegible]

[illegible]

PART – A (10 × 2 = 20 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B (5 × 16 = 80 Marks)

11. [illegible]

12. a. [illegible]
    b. [illegible]

13. a. [illegible]
    b. [illegible]

14. a. [illegible]
    b. [illegible]

15. a. [illegible]
    b. [illegible]

16. a. [illegible]
    b. [illegible]
       i. [illegible]
       ii. [illegible]

17. a. [illegible]
    b. [illegible]
       i. [illegible]
       ii. [illegible]

18. a. [illegible]
    b. [illegible]

Code No. : 114

[illegible]

[illegible]

Time : 3 Hours Max. Marks : 80

Note : Answer all questions from Part-A and answer any five questions from Part-B.

PART – A (10 × 2 = 20 Marks)

1. What are the various stages of NPCIL Level-1 PSA?
2. [illegible]
3. Write short notes on Event Tree?
4. Write the advantages of PSA?
5. Write the functions of Containment?
6. Write the principle involved in Gamma Chromatography?
7. Write a note on Radioactive Tracers.
8. Classify Chromatography based on the movement of the solvent?
9. Write a note on Respirators?
10. [illegible]

PART – B (5 × 12 = 60 Marks)

11. Write a note on Total Quality Management.
12. Write the principle, working principle and applications of Thermistor.
13. Write a note on Cell Electrodeposition.
14. Write a short note on
    (a) Chromatography?
    (b) Electrophoresis?
15. Write the principle, instrumentation and applications of Atomic Absorption Spectroscopy.
16. Explain the principle and instrumentation of Atomic Fluorescence.
17. Explain the principle and instrumentation of Potentiometric titrations.
    (a) Titration curves
    (b) Redox Electrodes
18. Discuss the Principle, instrumentation and applications of UV-Visible Spectroscopy.

Code No. : III

[illegible]

[illegible]

Subject: Pharmaceutical Formulations

Time : 3 Hours Max. Marks : 75

Note: Answer all questions from Part-A and answer any five questions from Part-B.

Part-A — [illegible]

1. [illegible]
2. [illegible]
3. What is the significance of Biopharmaceutics in the preparation of suppositories?
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. What is Sweating?
9. [illegible]
10. [illegible]

Part-B — [illegible]

11. Define and Classify Ointments. Write the Bases of preparation of Ointments. Explain the [illegible] by suitable example.

12. Classify and explain different types of Pharmaceutical dosage forms.

13. Write a note on [illegible]. What is quality control test of final product?

14. Describe the preparation of different types of tablets. Write in detail about any one [illegible] tablets.

15. [illegible]

16. Explain in detail about the [illegible]

17. What is suppository? Discuss in detail about suppository bases.

18. Describe the method of drying? Write the principle. Explain briefly any two [illegible] and their applications.

Code No. 4[illegible]

[illegible]

[illegible]

Subject : [illegible]

Time : 3 Hours | Max. Marks : 70

Note: Answer all questions from Part-A and answer any five questions from Part-B.

PART – A (10 × 2 = 20 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B (5 × 10 = 50 Marks)

11. a) [illegible]
    b) [illegible]

12. [illegible]

13. a) [illegible]
    b) [illegible]

14. a) [illegible]
    b) [illegible]

15. a) [illegible]
    b) [illegible]

16. a) [illegible]
    b) [illegible]

17. a) [illegible]
    b) [illegible]

18. a) [illegible]
    b) [illegible]

* * * * *

Code No: 4004

FACULTY OF PHARMACY

Pharm. D. (V Professional) Degree Examinations, July 2011

Subject: Pharmaceutical Jurisprudence

Time: 3 Hours Max. Marks: 70

Note: Answer any FIVE questions from Part-A and any FIVE questions from Part-B.

PART – A (5 × 2 = 10 Marks)

1. Define Pharmacy as per Pharmacy Act, 1948.
2. Give one illustration for the case where cheating does not amount to forgery.
3. What is the definition drug as per Drugs & Cosmetics Act?
4. What are "Narcotic and Psychotropic Substances of Deserving Control"?
5. What is Loan license?
6. What are the categories of medicines prescribed under Schedule X as per Drugs & Cosmetics Act, according to Narcotic Drugs Act?
7. Write any two important functions of Pharmacy Practice Research Unit.
8. Mention the formulae to calculate Relative Risk? Explain Odds Ratio & Prevalence Rate.
9. What are "Patent and Trademark" under Intellectual Property Rights?
10. What is the definition of Narcotic according to N.D.P.S. Act?

PART – B (5 × 12 = 60 Marks)

11. Describe in detail about "Pharmacy Act".

12. What are the provisions of Drugs & Cosmetics Act with respect to Schedule G and Schedule H?

13. Write a note on Pharmacy Practice Research Unit (PPRU) and its functions.

14. Write a note on Pharmacy Council of India as well as State Pharmacy Council.

15. Discuss briefly the Regulations of Clinical Trials in India.

16. Discuss the role of Pharmacist in Pharmacoeconomics.

17. Describe in detail about Central Drug Laboratory.

18. What are the objectives of Intellectual Property Rights (IPR)?

Code No: 4[illegible]

[illegible] PHARMACY

[illegible]

Subject: Pharmacology - I

Time: 3 Hours | Max. Marks: 70

Note: Answer all questions from Part-A and answer any five questions from Part-B.

PART – A (10 × 2 = 20 Marks)

1. [illegible]
2. Write a note on Chloroquine.
3. Classify [illegible] antibiotics.
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. What are the principle functions of pharmacology?
9. [illegible]
10. [illegible]

PART – B (5 × 10 = 50 Marks)

11. What are the main principles of [illegible] and write [illegible] for the [illegible] drug-drug interaction?

12. What are the different routes of [illegible]? Explain in brief [illegible] for [illegible] routes.

13. Explain the mechanism of action, pharmacological actions, uses and adverse effects of [illegible].

14. What are the [illegible]?

15. Write the [illegible] of [illegible], its [illegible], uses and adverse effects of
    (a) [illegible]
    (b) [illegible]

16. Explain in detail about the pharmacology of [illegible].

17. What is Sacrum? Write its [illegible]? Write the [illegible] of [illegible].

18. Describe about [illegible] and its [illegible].

Code No. 4004

M.S. UNIVERSITY

Pharmaceutical Analysis

Time : 3 Hours

Max. Marks : 75

Note : Answer all questions from Part-A and answer any five questions from Part-B.

PART – A (15 × 1 = 15 Marks)

1. Write the principle involved in gel filtration.
2. Define Assay and Potency.
3. Write the Beer-Lambert's law and its limitations.
4. Explain the principle of Polarography.
5. Write the principle of Amperometric titrations.
6. Define Retention time and Retention volume.
7. Explain the principle of Potentiometric titrations.
8. Write the principle involved in HPTLC.

PART – B (5 × 12 = 60 Marks)

9. Write short notes on :
   (a) ICH guidelines
   (b) Pharmacopoeias

10. Discuss the principle and instrumentation of Flame photometry.

11. Explain the principle and instrumentation of Potentiometry.

12. Discuss the principle and instrumentation of Polarography.

13. (a) Write short notes on Amperometric titrations and its types.
    (b) Write a note on Karl Fischer titration.

14. Write the principle and applications of HPTLC.

15. Explain the principle and instrumentation involved in Column chromatography.

16. Discuss the instrumentation and working of Flame Photometry.

Code No. 4307

[illegible] PROGRAMME

[illegible]

Subject : Medicinal Chemistry

Time : 3 Hours | Max. Marks : 70

Note: Answer all questions from Part-A and answer any five questions from Part-B.

PART – A (10 × 2 = 20 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. Give any two uses of following drugs
   a) Chloramphenicol b) Phenytoin c) Atenolol d) Indomethacin
9. [illegible]
10. [illegible]

PART – B (5 × 10 = 50 Marks)

11. a) [illegible]
    b) [illegible]

12. [illegible]

13. a) [illegible]
    b) [illegible]

14. a) [illegible]
    b) [illegible]

15. a) [illegible]
    b) [illegible]

16. a) [illegible]
    b) [illegible]

17. a) [illegible]
    b) [illegible]

18. a) [illegible]
    b) [illegible]

Code No. 1328

FACULTY OF PHARMACY

Master D. [illegible] – [illegible] January 2014

Subject: Pharmaceutical Analysis

Time: 3 hours | Max. Marks: 75

Note: Answer any [illegible] questions from Part-A, any [illegible] questions from Part-B and any [illegible] questions from Part-C.

PART – A (7 x 5 = 35 Marks)

1. Explain [illegible] with a neat diagram. 5
2. Give [illegible] of [illegible] and [illegible] with [illegible] 5
3. Explain [illegible] 5
4. [illegible] 5
5. Explain [illegible] 5
6. [illegible] 5
7. Give [illegible] 5
8. Explain [illegible] 5
9. [illegible] 5

PART – B (3 x 10 = 30 Marks)

10. [illegible] 10

11. [illegible] 10

12. [illegible] 10

13. [illegible] 10

14. [illegible] 10

15. a) [illegible] 5
    b) [illegible] 5

16. [illegible] 10

Code No. [illegible]

[illegible] OF PHARMACY

[illegible] – [illegible] Examination, January 2011

Subject: Medicinal Chemistry

Time : 3 hours | Max. Marks : 75

Note: Answer all questions from Part-A, Answer any 5 (five) questions from Part-B.

PART – A (10 × 2 = 20 Marks)

1. What is combinatorial chemistry? What is application of combinatorial chemistry? 2
2. Classify antihypertensive drugs with example for each class. 2
3. Give structure, IUPAC name of any two sulphonamides used as antimicrobials. 2
4. Write a note on β-lactamase inhibitors. 2
5. Write a note on mechanism of action of any one laxative drug. Write its therapeutic importance. 2
6. Write a note on [illegible] 2
7. Write structure, mechanism of action of any two drugs belonging to antihistaminic used in allergic conditions. 2
8. Write a note on structure of any two diagnostic agents belonging to [illegible] 2
9. Classify any two adrenergic and cholinergic blocking agents. Write structures of any one. 2
10. Enlist any two sedatives and hypnotics. 2

PART – B (5 × 10 = 50 Marks)

11. a) Discuss QSAR and explain the significance of [illegible] 6
    b) Write a note on [illegible] 4

    (or)

    c) Explain the application of [illegible] 4

12. a) Define the [illegible] mechanism of action and side effects of the following: 2½ + 2½
    i) Sulphadiazine ii) Trimethoprim
    b) Define the [illegible] mechanism of action, uses and side effects of the following: 2½ + 2½
    i) Chloroquine ii) Metronidazole
    c) Write a note on [illegible] 5

    (or)

13. a) Classify antimalarials. Write structure of any one antimalarial drug. 5
    b) Discuss the chemistry, mechanism of action, uses and side effects of the following: 5 + 5
    i) Propranolol ii) Atenolol
    c) Write a note on [illegible] 5

    (or)

14. a) Classify diuretics. Write structure of any one diuretic drug. 5
    b) Discuss the chemistry, mechanism of action, uses and side effects of the following: 5 + 5
    i) Digoxin ii) Nitroglycerin
    c) Write a note on [illegible] 5

    (or)

15. a) Classify antiulcer agents with one example for each class. Write the structure, mechanism of action of any one drug. 5
    b) Discuss the chemistry, mechanism of action, uses and side effects of the following: 5 + 5
    i) Omeprazole ii) Ranitidine
    c) Write a note on [illegible] 5

FACULTY OF PHARMACY

Third Year (Sem. V) Examination, January 2019

Subject: Pharmaceutical Analysis – I

Day: Friday | Max. Marks: 70

Note: Answer all questions from Part – A and any five questions from Part – B.

PART – A (10 × 2 = 20 Marks)

1. Write the principle involved in titrimetric analysis. 2
2. Explain why the strength of hydrochloric acid cannot be determined by using sodium hydroxide as primary standard. 2
3. Write any two applications of Karl Fischer titration. 2
4. Explain the principle of Kjeldahl method. 2
5. Write the principle of TLC. 2
6. Write any two applications of HPLC. 2
7. What is the principle behind the determination of melting point? 2
8. Write the principle of Abbe's refractometer. 2
9. What is the principle behind the determination of viscosity by Ostwald viscometer? 2

PART – B (5 × 10 = 50 Marks)

10. Answer any two:
    a) Write a note on Lead nitrate. 5
    b) Explain the principle of Iodometric titrations. 5

11. Answer any two:
    a) Explain the principle of potentiometric titrations. 5
    b) Write a note on the principle of Karl Fischer titration. 5

12. Answer any two:
    a) Write a note on UV-Visible spectrophotometer. 5
    b) Write a note on the principle of Flame emission spectroscopy. 5

13. Write a note on the principle of Gas chromatography. 10

14. Answer any two:
    a) Write a note on the principle of Abbe's refractometer. 5
    b) Write a note on the principle of Polarimeter. 5

15. Answer any two:
    a) Explain the principle of Viscometry. 5
    b) Explain the principle of Conductometry. 5

Code No. 4205

[illegible]

[illegible]

Subject : [illegible]

Time : 3 Hours Max. Marks : 70

Note : Answer all questions from Part-A. Answer any five questions from Part-B.

PART – A (10 × 2 = 20 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B (5 × 10 = 50 Marks)

11. [illegible]

12. [illegible]

13. [illegible]

14. [illegible]

15. [illegible]

16. [illegible]

17. [illegible]

18. [illegible]

Code No: 4304

FACULTY OF PHARMACY

Pharm. D 2nd Professional (Old Curriculum) Examinations, July 2011

Subject: Pharmaceutical Jurisprudence

Time: 3 Hours Max. Marks: 70

Note: Attempt all the questions. Part-A and Part-B are to be answered in the same answer book. Part-C.

PART – A (10 × 2 = 20 Marks)

1. Define Pharmacy? Write the objectives according to D & C Act.
2. Give any three conditions for the grant of manufacturing licence under D & C Act.
3. What is the definition of drug under section 3 (b) of D & C Act?
4. What are "Poisons" and "Scheduled Poisons" according to Poisons Act?
5. What is Loan licence?
6. What are the categories of medicines prescribed under Medicinal and Toilet Preparations (Excise Duties) Act?
7. Write any eligibility criteria for getting admission in Bachelor of Pharmacy and Doctor of Pharmacy course.
8. Mention the formulae to calculate Total Production Cost and Total Price Cost.
9. What are "Patent" and "Trademark" under Trade and Merchandise Act?
10. What are the definition of Opium according to D & C Act?

PART – B (5 × 10 = 50 Marks)

11. Describe in detail on Manufacture of drugs.
12. What are the essential things which are to be specified in the provisions of Schedule P of D & C Act?
13. Write a note on Licensing Authorities under Poisons Act.
14. Write the procedure and duties of Pharmacy Practice Council.
15. Discuss about the Registration of Drugs under Drugs Act.
16. Discuss the term trading / wholesale and retail.
17. Describe in detail on Controlling Laboratories.
18. What are the objectives of Medicinal Drugs Policy 2002?

1 of 2

Code No: 4[illegible]

[illegible]

Subject: Hematology - I

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions from Part-A. Each answer carry five questions from Part-B.

PART – A (5 x 2 = 10 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B (5 x 12 = 60 Marks)

11. [illegible]

12. [illegible]

13. [illegible]

14. [illegible]

15. [illegible]

16. [illegible]

17. [illegible]

18. [illegible]

Code No. 4004

[illegible]

[illegible]

[illegible]

Time : 3 Hours Max. Marks : 70

Note : Answer all questions from Part-A and answer any five questions from Part-B.

PART – A (10 × 2 = 20 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B (5 × 10 = 50 Marks)

11. (a) [illegible]
    (b) [illegible]

12. [illegible]

13. [illegible]

14. [illegible]

15. [illegible]

16. [illegible]

17. [illegible]

18. [illegible]

Code No: 4207

[illegible] PROBABILITY

[illegible]

Subject : Medicinal Chemistry

Time : 3 Hours Max. Marks : 70

Note: Answer all questions from Part-A and answer any five questions from Part-B.

PART – A (10 × 2 = 20 Marks)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. Give a note on following drugs
   a) Chloramphenicol b) Penicillin G c) Ampicillin d) Cephalosporin
9. [illegible]
10. [illegible]

PART – B (5 × 10 = 50 Marks)

11. a) [illegible]
    b) [illegible]

12. [illegible]

13. a) [illegible]
    b) [illegible]

14. a) [illegible]
    b) [illegible]

15. a) [illegible]
    b) [illegible]

16. a) [illegible]
    b) [illegible]

17. a) [illegible]
    b) [illegible]

18. a) [illegible]
    b) [illegible]

[illegible]

[illegible] - [illegible]

[illegible]

[illegible] [illegible]

[illegible] [illegible]

[illegible]

[illegible]

1. [illegible] [illegible] 1
2. [illegible] [illegible] 1
3. [illegible] [illegible] 1
4. [illegible] [illegible] 1
5. [illegible] [illegible] 1
6. [illegible] [illegible] 1
7. [illegible] [illegible] 1
8. [illegible] [illegible] 1
9. [illegible] [illegible] 1
10. [illegible] [illegible] 1

[illegible]

1. [illegible]
   a. [illegible] 1
   b. [illegible] 1

2. [illegible] [illegible] 1
   a. [illegible] 1

3. [illegible] [illegible] 1
   a. [illegible] 1

4. [illegible] [illegible] 1
   a. [illegible] 1

5. [illegible] [illegible] 1
   a. [illegible] 1

6. [illegible] [illegible] 1
   a. [illegible] 1

7. [illegible] [illegible] 1
   a. [illegible] 1

8. [illegible] [illegible] 1
   a. [illegible] 1

[illegible]

FACULTY OF PHARMACY

[illegible]

[illegible]

Time: [illegible] Max. Marks: [illegible]

[illegible]

PART – A [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B [illegible]

11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. [illegible]
16. [illegible]
17. [illegible]
18. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Time : [illegible] Max. Marks : 70

Note : [illegible]

PART – A ([illegible] Marks)

1. [illegible] 2
2. [illegible] 2
3. [illegible] 2
4. [illegible] 2
5. [illegible] 2
6. [illegible] 2
7. [illegible] 2
8. [illegible] 2
9. [illegible] 2
10. [illegible] 2

PART – B ([illegible] Marks)

11. [illegible] 10

12. [illegible] 10

13. [illegible] 10

14. [illegible] 5
    b) [illegible] 5

15. [illegible] 10

16. [illegible] 10

17. [illegible] 10

18. [illegible] 10
    a) [illegible] b) [illegible]

[illegible]

[illegible]

FACULTY OF PHARMACY

[illegible]

Subject: Pharmaceutical Analysis

Time: 3 hours | Max. Marks: 75

[illegible]

PART – A [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

PART – B [illegible]

11. [illegible]
12. [illegible]
13. [illegible]
14. a) [illegible]
    b) [illegible]
15. a) [illegible]
    b) [illegible]
16. a) [illegible]
    b) [illegible]
17. a) [illegible]
    b) [illegible]
18. [illegible]

Code No: [illegible] AM

FACULTY OF PHARMACY

Program: [illegible] Year: [illegible] Semester: [illegible] Regulation: [illegible]

Subject: [illegible]

Time: [illegible] Max. Marks: [illegible]

Note: Answer all questions from Part-A. Answer any [illegible] questions from Part-B.

PART – A [illegible] Marks]

1. [illegible] [illegible]
2. [illegible] [illegible]
3. [illegible] [illegible]
4. [illegible] [illegible]
5. [illegible] [illegible]
6. [illegible] [illegible]
7. [illegible] [illegible]
8. [illegible] [illegible]
9. [illegible] [illegible]
10. [illegible] [illegible]

PART – B [illegible] Marks]

11. [illegible] [illegible]
12. [illegible] [illegible]
13. [illegible] [illegible]
14. [illegible] [illegible]
15. [illegible]
    a. [illegible]
    b. [illegible]
16. [illegible] [illegible]
17. [illegible] [illegible]
18. [illegible] [illegible]

Code No. [illegible]

FACULTY OF PHARMACY

[illegible] - [illegible]

Subject : [illegible]

Time : [illegible] Max. Marks : 75

Note : Answer all questions from Part-A. Answer any FIVE questions from Part-B.

PART – A (5 × [illegible] = 25 Marks)

1. [illegible] 2
2. [illegible] 2
3. [illegible] 2
4. [illegible] 2
5. [illegible] 2
6. [illegible] 2
7. [illegible] 2
8. [illegible] 2
9. [illegible] 2
10. [illegible] 2

PART – B (5 × [illegible] = 50 Marks)

11. [illegible] 10

12. [illegible] 10

13. [illegible] 10

14. [illegible] 10

15. a) [illegible] 5
b) [illegible] 5

16. a) [illegible] 5
b) [illegible] 5

17. [illegible] 10

18. a) [illegible] 5
b) [illegible] 5

[illegible]