QP Code: 721006 **Reg. No……**

Seventh Semester B. Pharm Degree Supplementary Examinations
February 2022
Instrumental Methods of Analysis

(2017 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw diagrams wherever necessary***

Essays **(2x10=20)**

1. Explain the principle of fluorimetry using Jablonskis diagram, explain the various deactivation processes. Explain the applications of fluorimetry.
2. Explain the construction and working of gas chromatography with a neat diagram.

Short Notes **(7x5=35)**

3. Explain the different types of electronic transitions encountered in UV spectroscopy.
4. What is • Electrophoresis • Chromophore • Auxochrome
   • Bathochromic shift • Hypsochromic shift
5. Explain the construction and working of a GOLAY Cell.
6. Explain the principle behind flame photometry.
7. Explain the term height equivalent of a theoretical plate.
8. Explain the principle, stationary and mobile phases of gel filtration chromatography.
9. Explain the principle and applications of affinity chromatography.

Answer Briefly **(10x2=20)**

10. Give two examples of cation exchange resins and two examples of anion exchange resins.
11. How will you distinguish between primary and secondary amines on an IR spectrum.
12. Give two applications of ion exchange chromatography.
13. In an IR spectrum what is the finger print region.
14. Isocratic elution.
15. Reverse phase chromatography.
16. Isoelectric focusing.
17. Give two methods of identifying the separated spots in paper chromatography.
18. Compare TLC and HPTLC on particle size parameter and thickness of stationary phase.
19. Methods for preparing TLC plates

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QP Code: 722006 **Reg. No…….**

Seventh Semester B. Pharm Degree Supplementary Examinations
February 2022
Industrial Pharmacy
(2017 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw diagrams wherever necessary***

Essays **(2x10=20)**

1. Write a note on the historical overview of regulatory affairs, regulatory authorities and their role & responsibilities in controlling the introduction of newer drug molecules.
2. Discuss the plant location and layout and other requirements for starting a Pharma Industry.

Short Notes **(7x5=35)**

3. Discuss the chemical hazards and their prevention.
4. Explain in detail about SUPAC guidelines.
5. Granularity of TT Process.
6. Describe briefly about platform technology.
7. What are the regulatory requirements and approval procedures for New drugs in India
8. What are the role of TBSE in Technology transfer.
9. What are the responsibilities of CDSCO.

Answer Briefly **(10x2=20)**

10. What are the unit operations involved in pilot plant scale up of solid dosage forms
11. Define Technology transfer.
12. Different phases of clinical trials.
13. What are innovation and invention.
14. Different types of licensing agreement
15. Define regulatory authority.
16. Briefly Explain TIFAC.
17. Briefly Explain COPP.
18. Steps of drug development process.
19. What is the structure of CTD

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QP Code: 723006 **Reg. No…….**

Seventh Semester B. Pharm Degree Supplementary Examinations
February 2022
Pharmacy Practice

(2017 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw diagrams wherever necessary***

Essays **(2x10=20)**

1. Define Hospital Formulary and explain its contents in detail.
2. Define on adverse drug reaction and describe the various causality assessment scales used to measuring it.

Short Notes **(7x5=35)**

3. Management of Hypertension.
4. What are the different abnormal constituents of urine and explain the various tests used to detect the same.
5. Rational use of Injections.
6. Explain the functions of a hospital pharmacist.
7. Define patient counselling and explain the various steps involved in patient counselling.
8. Explain the role of pharmacists in ward round participation.
9. Explain the role of P.T.C. in ensuring safe use of drugs in hospital.

Answer Briefly **(10x2=20)**

10. What are the different records to be maintained in a community pharmacy.
11. Enlist the different methods of procurement of drugs in a drug store.
12. Write the different indications of therapeutic drug monitoring.
13. Write the different sources of drug information.
14. Explain the non-pharmacological management of asthma.
15. Automatic stop order regulation in hospital pharmacy services.
16. Explain the importance of taking medication history from a patient.
17. Write any two pharmacodynamic drug interactions with examples.
18. Write the different modes of non-verbal communication.
19. Re-order level in inventory control.

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QP Code: 724006 **Reg. No…….**

Seventh Semester B. Pharm Degree Supplementary Examinations
February 2022
Novel Drug Delivery Systems

(2017 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw diagrams wherever necessary***

Essays **(2x10=20)**

1. Discuss the approaches for targeted drug delivery with suitable examples
2. Discuss the basic components of trans dermal drug delivery systems

Short Notes **(7x5=35)**

3. Describe ideal drug candidates for liposomal drug delivery
4. Discuss microencapsulation by air suspension technique with diagram
5. Classify and outline the salient features of ophthalmic inserts
6. Outline principle and components of osmotic drug delivery system with suitable diagram
7. Identify the uses of polymers in pharmaceutical industry
8. Highlight the importance of Nasal route of drug delivery
9. List pharmaceutical applications of microencapsulation

Answer Briefly **(10x2=20)**

10. Mention the applications of monoclonal antibodies
11. Distinguish between liposomes and niosomes
12. List four examples for controlled release polymers
13. Differentiate biodegradable and non-biodegradable polymers
14. List the physical approaches for permeation enhancement in trans dermal drug delivery systems
15. Mention disadvantages of controlled release drug delivery systems
16. Describe gastroadhesive systems
17. Explain on nebulizers
18. Outline mechanism of transmucosal permeability
19. Define diffusion controlled drug delivery systems

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