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[6019]-7011

Final Year B. Pharmacy

BP - 701T : INSTRUMENTAL METHODS OF ANALYSIS (2019 Pattern) (Semester - VII)

Time: 3 Hours] [Max. Marks: 75

Instructions to the candidates:

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- 1) All questions are compulsory.
- 2) Neat diagram must be drawn wherever necessary.

Q1) Attempt the following (Any 5):

 $[5 \times 3 = 15]$

- a) Discuss the principle of fluorescence with the help of Jablonski diagram.
- b) Discuss about various pumps used in HPLC.
- c) Discuss the term normal phase and reverse phase chromatography.
- d) Explain fingerprint region in IR spectroscopy.
- e) Discuss Van-Deemter equation in detail.
- f) Discuss the comparative aspects of nephelometry and turbidometry.
- g) What are the methods for quantitation by UV-Visible spectro photometry?

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Q2) Answer the following (Any 2):

 $[2 \times 10 = 20]$

- a) Describe the principle, instrumentation and applications of Gas chromatography.
- b) Discuss in detail theory and instrumentation of double beam UV-Visible spectrophotometer. https://pharmacyindia.co.in/
- c) Explain the construction and working of flame emission spectrometry with neat labelled diagram and discuss various types of interferences occurred in atomic spectroscopy.
- d) Classify chromatographic techniques and describe quantitative and qualitative aspects of chromatographic analysis.

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Q3) Attempt the following (Any 8):

 $[8 \times 5 = 40]$

- a) Draw a block diagram and explain the instrumentation of HPLC.
- b) Explain the concept of plate theory and rate theory for increasing the efficiency of column in chromatography. https://pharmacyindia.co.in/
- c) Discuss various types of transitions involved in UV-Visible spectroscopy.
- d) Write a note on:
 - i) Concept of molecular luminescence
 - ii) Applications of thin layer chromatography.
- e) Discuss the various steps involved in HPTLC.
- f) Write the principle, theory and applications of ion exchange chromato graphy.
- g) Write a note on: https://pharmacyindia.co.in/
 - i) Quenching of fluorescence
 - ii) System suitability parameters
- h) Write the instrumentation of Atomic absorption spectroscopy in detail.
- i) Discuss the factors affecting fluorescence spectroscopy.
- j) Give a detail account on detectors used in IR spectroscopy.

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[6019]-7012

Fourth Year B. Pharmacv

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BP-702(T): INDUSTRIAL PHARMACY - II (2019 Pattern) (Semester - VII)

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

Instructions to the candidates:

- Answer all questions.
- 2) Figures to the right indicates full marks.
- Assume suitable data, if necessary. https://pharmacvindia.co.in/ 3)
- *Q1*) Objective Type Questions (Answer 5 out of 7)

 $[5 \times 3 = 15]$

- What is platform technology. a)
- What is qualification? b)
- Explain role of various ICH guidelines useful in tech transfer. c)
- What are the elements of QbD? d)
- Define clinical trial and explain Phase II e)
- List out the significance of NABL accreditation. f)
- Describe in brief about State licensing authority? https://pharmacvindia.co.in/
- Q2) Long Answers (Answer 2 out of 4).

 $[2 \times 10 = 20]$

- Describe SUPAC guidance for all levels of changes in batch size. a)
- Describe various technology readiness levels. b)
- Explain the stages in the development of new drug. c) https://pharmacyindia.co.in/
- Explain the concepts of Total Quality Management and Quality by d) Design (QbD).
- Q3) Short Answers (Answer 8 out of 10).

 $[8 \times 5 = 40]$

- Explain risk management in technology transfer. a)
- Describe which post approval specification changes don't require b)
- https:/
- permission? <mark>/onarmacyindia.co.in/</mark> Explain failure mode effect analysis. https://pharmacyindia.co.in/
- Explain process validation. d)
- What is confidentiality agreement? e)
- f) What is platform technology?
- g) Explain the organization and functions of CDSCO.
- Explain the concepts of six sigma for Quality Improvement. h)
- Write short note on various phases of clinical trials. i)
- Explain the terminology QTPP and CPP with suitable example. i)

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[6019]-7013 Fourth Year B.Pharmacy PHARMACY PRACTICE

(2019 Pattern) (Semester-VII) (BP703T)

Time: 3 Hours] IMax. Marks: 75

Instructions to the candidates:

1) Answer all questions.

- https://pharmacyindia.co.in/
- 2) Fingures to the right sside indicate full marks.
- 3) Assume suitable data if necessary.
- Q1) Objective Type Questions (Answer any 5 out of 7).

[15]

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- What is VED analysis.
- Diffentiate between hospital formulary and drug list. b)
- Define over the counter (OTC) medications Explain advantages of OTC c) Product.

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- Explain causes of medication non-adherance. d)
- Discuss responsibilities and functions of hospital pharmacist. https://pharmacyindia.co.in/
- Describe Significance of drug information centre. f)
- Discuss types of medication orders. g)

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Q2) Long Answers (Answer any 2 out of 4).

[20]

- Explain need and components of patient medication history interview. a)
- b) Define drug interactions Explain various drug interactions with examples. https://pharmacyindia.co.in/
- Discuss role of pharmacist in medication odherance.
- d) Give a brief review on drug theropy based on pharmacokinetic and disease pattern.

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Q3) Short Answers (Answer any 8 out of 10).

[40]

- a) Explain functions and objectives of financial planning in community Pharmacy. https://pharmacyindia.co.in/
- b) Define patient counseling and discuss about the steps and barriers involved in patient counselling.
- c) Explain methods of labeling of drugs in hospital.
- d) Define Adverse drug reactions. Write a note on hypersensitivity reactions. https://pharmacyindia.co.in/
- e) Discuss factors to be considered during therapeutic drug monitering.
- f) Discuss in brief significance of different clinical laboratory tests.
- g) Discuss policies of Pharmacy and Therapeutic Committee (PTC) in including drugs into hospital formulary.
- h) Define budget. Discuss in brief about contents of budget.
- i) Discuss role of clinical Pharmacists in word round.
- j) Write a note on ABC analysis used for drug expenditure analysis.

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[6019]-7014

Final Year B. Pharmacy

BP-704T : NOVEL DRUG DELIVERY SYSTEM

(2019 Pattern) (Semester - VII)

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Time: 3 Hours] [Max. Marks: 75

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to right indicate full marks.

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Q1) Answer the following (Solve 5 out of 7):

 $[5 \times 3 = 15]$

a) Write a short note on propellants.

- https://pharmacyindia.co.in/
- b) Define and compare active & passive targeting.
- c) Describe nanoparticles along with their general properties.
- d) Explain ideal properties of bioadhesive polymer.
- e) What factors affect the designing of modified drug delivery system.
- f) What is targeted drug delivery? Give its applications.
- g) Write note on conservation method of microencapsulation.

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Q2) Answer in detail (Answer 2 out of 4):

 $[2 \times 10 = 20]$

- a) Explain in detail different methods for formulation of TDDS along with evaluation.
- b) Explain the preparation & application of monoclonal antibiotics.

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- c) Explain in detail formulation methods for nanoparticles along with advantages of nanoparticulate delivery.
- d) Explain in detail various methods of preparation of liposomes.

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Q3) Answer the following in brief (Answer 8 out of 10): $[8 \times 5 = 40]$

a) Write a short note on biodegradable polymers.

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- b) Explain the different theories of mucoadhesion.
- c) Explain the evaluation parameters for transthermal patches.
- d) Write a short note on contact-lens. https://pharmacyindia.co.in/
- e) What are advantages & disadvantages of implantable drug delivery system. https://pharmacyindia.co.in/
- f) Explain glass transition temperature & TGA of polymer.
- g) Explain metered dose inhaler.
- h) Explain the different barriers in occular drug delivery.
- i) Describe vapour pressure activated implantable device.
- j) Describe DSC & TGA studies of evaluation of polymer.

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