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Fourth Year B.Pharmacy

BP701T : INSTRUMENTAL METHODS OF ANALYSIS

(2019 Pattern) (Semester-VII)

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

Instructions to the candidates:

1) *All questions are compulsory.*
2) *Draw a neat, labeled diagram wherever necessary.*
3) *Figures to the right indicate full marks.*

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Q1) Attempt the followings (Any 5). **[5×3=15]**

a) Differentiate between TLC and HPTLC.

b) Explain in detail account on chromophore and auxochrome.

c) Discuss the various types of transitions involved in UV-V is spectrophotometry.

d) Discuss the principle and applications of nephelometry.

e) Discuss the importance of fingerprint region in IR spectoscopy.

f) Explain the concepts of singlet, doublet and triplet electronic states.

g) Describe various development techniques used in paper chromatography.

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Q2) Answer the followings (Any 2). **[2×10=20]**

a) Describe in detail the theory, instrumentation and applications of GC.

b) Draw a neat labeled diagram of double beam UV-Visible spectrophotometer. Explain the functioning of each part. Write applications of UV-Visible spectrophotometry.

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c) Describe in detail the theory, instrumentation and applications of HPTLC.

d) Discuss the phenomenon of fluorescence. Explain in detail the factors affecting fluorescence.

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Q3) Attempt the followings (Any 8). [8×5=40]

a) Write a note on

i) Spectrophotometric titrations

ii) Multi component Analysis.

b) Give a detail account on detectors used in IR spectroscopy.

c) Discuss the different types of interferences encountered in AAS and t ways to minimize them.

d) Discuss about theory and applications of ion exchange chromatograp

e) State Beer-Lamberts law. Explain the deviations leading from it.

f) Discuss rate theory and plate theory in detail.

g) Give a brief account on columns and pumps used in HPLC.

h) What is quenching of fluorescence? Explain the different types quenching.

i) Write a note on

i) Ion exchange resins

ii) Importance of degassing of solvents in HPLC.

j) Discuss the importance of

i) Rf value

ii) Retention time

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Fourth Year B. Pharm.

BP702T : INDUSTRIAL PHARMACY - II

(2019 Pattern) (Semester-VII)

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

Instructions to the candidates:

1) *All questions are compulsory.*
2) *Neat, labeled diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*

Q1) Answer the following (Any Five) [15]

a) What are the elements of QbD?

b) List out the significance of NABL accreditation.

c) Define validation? Explain benefits of validation.

d) Enlist methods of risk management.

e) Describe different levels of scale up changes as per SUPAC.

f) Define clinical trial and explain Phase II.

g) What are critical quality attributes?

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Q2) Answer the following (Any two) [20]

a) Explain the regulatory approval process for New Drug Application.

b) Explain the concept of Quality and Total Quality Management.

c) Explain the elements of ISO 9000:2000.

d) Describe documentation required in technology transfer.

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Q3) Answer the following (Any Eight) [4]

a) Write a note on Platform Technology.

b) Explain the responsibilities of regulatory affairs professionals.

c) Explain the requirements for pilot plant scale up of Liquid Orals.

d) Write note on Certificate of Pharmaceutical Product (COPP).

e) Discuss the objectives and scope of GLP in Pharmaceutical industry.

f) Describe the Organization of CDSCO with flow diagram.

g) Write a note on Drug Technical Advisory Board (DTAB) and its functions.

h) Write a note on Clinical research protocol.

i) Explain the applications of Biostatistics in Pharmaceutical Product Development.

j) Explain the concepts of Six Sigma for Quality Improvement.

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Fourth Year B. Pharmacy

BP - 703 - T : PHARMACY PRACTICE

(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 the right indicate full marks.*

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Q1) Objective Type Questions (Answer 5 out of 7) **[15]**

a) Classify hospitals and give their functions.

b) Illustrate synergistic type of drug interactions with examples.

c) Discuss the duties and responsibilities of hospital pharmacists.

d) Summarize advantages and disadvantages of satellite pharmacy service.

e) Explain the floor ward stock system.

f) Describe the fundamental requirements for the sale of over-the-counter (OTC) medications.

g) Give an explanation of therapeutic drug monitoring (TDM) and its necessity.

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Q2) Long Answers (Answer 2 out of 4) **[20]**

a) Describe the adverse drug reaction monitoring and reporting mechanism in India.

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b) Explain the various techniques utilised for hospital in-patient drug distribution.

c) Discuss in detail the organization and functions of Pharmacy and Therapeutic Committee.

d) Discuss the code of ethics for community pharmacy.

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Q3) Short Answers (Answer 8 out of 10)

a) Explain with examples how pharmacokinetic type of drug interactions affects drug's efficacy.

b) Discuss the process for selecting new medicines in formulary.

c) Elucidate the pharmacist's role in ensuring patient medication adherence.

d) What is an investigational drug? Explain the procedures for control of investigational drug use in the hospital.

e) Discuss the types of resources for drug information and steps for approaching drug information enquiries.

f) Discuss the role and responsibilities of community pharmacist.

g) Describe the arrangement of drugs in drug store.

h) Desribe the stages of patient counseling.

i) Explain the various lipid profile test parameters and their clinical relevance.

j) Discuss techniques used for inventory control.

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F.Y. B.Pharmacy

BP704T : NOVEL DRUG DELIVERY SYSTEM

(2019 Pattern) (Semester - VII)

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

Instructions to the candidates:

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

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Q1) Answer the followings (Solve any 5 out of 7) : **[5 × 3 = 15]**

a) Describe nanoparticles along with it's general properties.

b) Explain ideal properties of bioadhesive polymer.

c) Summarize the different factors affecting designing of modified drug delivery system.

d) Define controlled drug delivery system. Write it's advantages & disadvantages.

e) Define & Differentiate between active & passive targeting.

f) Enlist factors affecting the formulation of pulmonary drug delivery system.

g) Write short note on nebulizers.

Q2) Answer in detail (Solve any 2 out of 4) : **[2 × 10 = 20]**

a) Discuss in detail floating drug delivery system in GRDDS with it's evaluations.

b) Explain in detail various methods of preparation of liposomes.

c) Discuss in detail types of occular drug delivery system.

d) Define microencapsulation & Explain any three techniques of microencapsulation.

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

a) Explain permention enhancers with example in Transdermal Drug Delivery System (TDDS).

b) Explain the different theories of mucoadhesion.

c) What are the evaluation parameters of polymers write a note on DSC.

d) What are ion exchange resin? Give their mechanism.

e) Describe vapour pressure activated implantable device.

f) Explain Evaluation parameters of transdermal patches.

g) What are temperature & pH responsive polymer? Explain it.

h) Explain the classification of intrauterine drug delivery with suitable example.

i) Write an account on metered dose inhalers.

j) What are the advantages & disadvantages of implantable drug delivery system?

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