Total No. of Questions : 3]

Visit - pharmacyindia.co.in SEAT No. :

PA-883

[5940]-7001

[Total No. of Pages : 2

https://pharmacyindia.co.in/ Fourth Year B. Pharmacy **BP701T : INSTRUMENTAL METHODS OF ANALYSIS** (2019 Pattern) (Semester - VII)

Time : 3 Hours]

https://pharmacyindia.co.in/

[Max. Marks: 75]

All questions are compulsory. 1)

Neat diagram must be drawn wherever necessary. 2)

https://pharmacyindia.co.in/

Instructions to the candidates:

Q1) Attempt the following. (Any 5)

- Explain the term chromophore and Auxochrome with suitable example. a)
- Discuss the concept of adsorption and partition chromatography. **b**)
- Discuss the advantages of HPTLC over TLC. c) https://pharmacvindia.co.in/
- Explain the concept of singlet and triplet electronic state. d)
- Write the principle involved in ion exchange chromatography. e)
- f) Discuss the importance of temperature programming in GC.
- Describe the importance of term retention factor and retention time in g) detail. https://pharmacyindia.co.in/

Q2) Answer the following. (Any 2)

https://pharmacyindia.co.in/

- Draw a neat labeled diagram of flame photometer. Explain the functioning a) of each part. Write application of flame photometry. https://pharmacyindia.co.in/
- Describe the principle, instrumentation and applications of HPLC. b)
- Explain the phenomenon of fluorescence and phosphorescence with the c) help of neat labelled diagram. Discuss the factors affecting the phenomenon of fluorescence. https://pharmacyindia.co.in/
- Describe the ideal requirements of detector. Discuss in brief about various d) detectors used in IR spectroscopy.

https://pharmacyindia.co.in/

[5×3=15]

[2×10=20]

P.T.O.

Q3)Attempt the following. (Any 8)

[8×5=40]

- a) Draw a neat labeled diagram of fluorimeter and explain the functioning of each part. https://pharmacyindia.co.in/
- b) Discuss the various development techniques used in.
 - i) Paper chromatography
 - ii) Thin layer chromatography
- c) Write a note on:
 - i) Columns in GC
 - ii) System suitability parameters
- d) Write a note on: https://pharmacyindia.co.in/
 - i) Affinity chromatography
 - ii) Column chromatography
- e) Discuss the construction and working of double beam UV-Visible spectrophotometer. https://pharmacyindia.co.in/
- f) State Beer-Lamert's Law and explain the deviations leading from it.
- g) Give a brief account on Nepheloturbidometry.
- h) Discuss the instrumentation of AAS.
- i) Write a note on https://pharmacyindia.co.in/
 - i) Multi component method of analysis.
 - ii) Quenching of fluorescence.
- j) Discuss in detail various types of electronic transitions in UV-Visible spectrophotometry.

https://pharmacyindia.co.in/



https://pharmacyindia.co.in/

[5940]-7001

Visit - pharmacyindia.co.in SEAT No. : Total No. of Questions : 3]

PA-2609

[5940]-7002

https://pharmacyindia.co.in/

Final Year B. Pharmacy INDUSTRIAL PHARMACY - II (2019 Pattern) (Semester - VII) (BP702T)

Time : 3 Hours] [Max. Marks : 75 Instructions to the candidates: https://pharmacyindia.co.in/ All Questions are compulsory. *1*) 2) Neat labeled diagrams must be drawn wherever necessary. Figures to the right indicate full marks. 3) Q1) Objective Type Questions (Answers 5 out of 7): [5×3=15] What is platform technology? a) b) What are the goals of quality management system? c) Enlist methods of risk management. https://pharmacyindia.co.in/ d) What is performance qualification? What are the dimensions of quality? e) What is vertical technology transfer? f) What are the benefits of ISO 14000? **g**) https://pharmacyindia.co.in/ *Q2*) Long Answers (Answer 2 out of 4): [2×10=20] What is technology transfer? Explain granularity of tech transfer. a) b) Describe documentation required in technology transfer. https://pharmacvindia.co.in/ c) Explain the regulatory approval process for New Drug Application.

d) Explain the elements of ISO 9000 : 2000?

https://pharmacyindia.co.in/

[Total No. of Pages : 2

https://pharmacyindia.co.in/

- - *P.T.O.*

Visit - pharmacyindia.co.in

Q3) Short Answers (Answer 8 out of 10):

[8×5=40]

- a) Describe SUPAC SS level 1 changes for change in batch size.
- b) What is technology transfer? https://pharmacyindia.co.in/
- c) Write a note on technology transfer agencies in India.
- d) Describe impact of change in equipment as per SUPAC.
 https://pharmacyindia.co.in/
- e) What is the certification process in accordance with ISO 9001?
- f) Explain the organization and functions of CDSCO.
- g) What is GLP and discuss the same. https://pharmacyindia.co.in/
- h) Explain the concepts of six sigma for Quality Improvement.
- i) What is clinical research protocols and data presentation? https://pharmacyindia.co.in/
- j) Write short note on various phases of clinical trials.

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/



https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

[5940]-7002

2

D. Pharma University Exam Papers | B. Pharma University Exam Papers | GPAT, NIPER, Pharmacist, Drug Inspector Exam Papers | Previous Year Exam Papers | Latest Pharma Job | Pharma Colleges | Pharma News | Pharma Quiz Visit - pharmacyindia.co.in SEAT No. : Total No. of Questions : 3] **PA-884** [Total No. of Pages : 2 [5940]- 7003 Fourth Year B. Pharmacy https://pharmacyindia.co.in/ **BP703T : PHARMACY PRACTICE** (2019 Pattern) (Semester - VII) *Time : 3 Hours]* [Max. Marks: 75] Instructions to the candidates: All questions are compulsory. 1) https://pharmacyindia.co.in/ Neat diagrams must be drawn wherever necessary. 2) Figures to the right indicate full marks. 3)

Q1) Objective type questions (Any 5 out of 7)

https://pharmacyindia.co.in/

- a) Comment on benificial drug- drug interactions. https://pharmacyindia.co.in/
- b) List advantages of hospital formulory system.
- c) Enlist the responsibilities an functions of hospital pharmacist.
- d) Describe the role of pharmacist in the education and training program in the hospital. https://pharmacyindia.co.in/
- e) Summarize the risk factors for drug interactions.
- f) Describe the organizational structure of hospital pharmacy.
- g) Define over the counter (OTC) medicine and give the basic criteria for sale of OTC medicines. https://pharmacyindia.co.in/
- Q2) Long Answer (Answers any 2 out of 4)

https://pharmacyindia.co.in/

- a) Classify adverse drug reactions and discuss monitoring and reporting system of ADR in India.
- b) Discuss in detail the organization and functions of pharmacy and therapeutic committee. https://pharmacyindia.co.in/
- c) Enlist the objectives of drug store and discuss the layout, types of material stocked and storage conditions for different material in drug store.
- d) Explain the drug therapy monitoring by clinical pharmacist.

https://pharmacyindia.co.in/

[20]

[15]

- *Q3*) Short answers (Any 8 out of 10) https://pharmacyindia.co.in/
 - a) Explain pharmacokinetic type of drug interactions with examples.
 - b) Discuss hospital formulory management principles and process for selecting new medicines in formulory. https://pharmacyindia.co.in/
 - c) Define medication adherance and explain the role of pharmacist in patient medication adherance.

```
https://pharmacyindia.co.in/
```

- d) Discuss the concept of therapeutic drug monitoring (TDM) and choractoristics of drug applicable for TDM.
- e) Discuss the resources for drug information and steps for approching drug information enquiries.
- f) Discuss role and responsibilities of community pharmacist.
- g) Comment on arrangement of drugs in drug store.
- h) Describe the stages of patient counseling. https://pharmacyindia.co.in/
- i) Discuss the rational use of common over the counter medications.
- j) Comment on the clinical significance of kideney function tests and lipid profile tests.

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

[5940]-7003

(h) pharmacyindia.co.in | epsilon pharmacyindia24@gmail.com
(i) 8171313561, 8006781759
Download PHARMACY INDIA App from Google Play Store

[40]

Total No. of Questions : 3] Visit - pharmacyindia.co.in SEAT No. :

PA-2619

https://pharmacyindia.co.in/

[5940]-7004

Final Year B.Pharmacy

NOVEL DRUG DELIVERY SYSTEM

(2019 Pattern) (Theory) (Semester - VII) (BP-704T)

Time : 3 Hours]

Instructions to the candidates:

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

Q1) Answer the following (Solve Five out of Seven)

- a) What factors affect the designing of modified drug delivery system?
- b) Explain different ideal properties of bioadhesive polymers. https://pharmacyindia.co.in/
- c) Define and compare, active and passive targetting?
- d) Classify Liposome according to structure?
- e) Describe nanoparticals along with their general properties.
- f) What are the disadvantages of conventional occular drug delivery system.
- g) What is targetted drug delivery? Give its application.

https://pharmacyindia.co.in/

Q2) Answer in detail (Ans Two out of four)

- a) Discuss in detail types of occular drug delivery system?
- b) Explain preparation and application of monoclonal Antibodies?
- c) Explain in detail different methods for formulation of TDDS along with evaluation?
- d) Explain in detail formulation & evaluation of nanoparticles.

https://pharmacyindia.co.in/

P.T.O.

[Total No. of Pages : 2



[2×10=20]

[Max. Marks : 75

https://pharmacyindia.co.in/

[5×3=15]

Visit - pharmacyindia.co.in

Q3) Answer the following in brief (Any 8 out of 10)

[8×5=40]

- a) Explain the different barrier in occular drug delivery. https://pharmacyindia.co.in/
- b) What are advantages and disadvantages of inplantable drug delivery system.
 https://pharmacyindia.co.in/
- c) Explain the different theories of mucoadhesion.
- d) Write a short note on biodegradable polymers.
- e) Explain controlled and sustained drug delivery in detail.
- f) Explain metered dose inhaler (MDI) https://pharmacyindia.co.in/
- g) Explain glass transition temperature and TGA of polymer.
- h) What are temperature and pH responsive polymers? Explain.
- i) What are ion exchange resins. Give their mechanism.
- j) Write short note on evaluation properties of niosomes.

https://pharmacyindia.co.in/

0000

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

https://pharmacyindia.co.in/

[5940]-7004

2

pharmacyindia.co.in | pharmacyindia24@gmail.com | (2) 8171313561, 8006781759
Download PHARMACY INDIA App from Google Play Store