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Total No. of Pages : 02

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Total No. of Questions : 13 B.Pharma. (Sem.-7) PHARMACY PRACTICE - THEORY Date of Examination : 17-05-2023 Subject Code : BP-703T M.Code: 78389

Time : 3 Hrs.

Max. Marks: 75

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adherence?

TDM

Explain medication adherence What is the impact and causes of non-medication

Write an elaborated note on therapeutic drug monitoring and factors considered during Define DUR, write its objectives and classification and steps involved in DUE cycle.

SECTION-B

INSTRUCTIONS TO CANDIDATES

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- N
- ω SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions. SECTION-C contains NIME questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

- Write briefly :
- a) Define clinical review

9. <u></u> 7 6 Ś

- 6) What do you know about pharmaceutical care?
- c) Define re-orders level
- d) Define primary care hospital.
- e) Enlist sources of drug information

13. 12 Ξ 10.

Define patient counselling and write the steps involved in patient counselling.

Define DUR, write its objectives and explain classification of DUR

Define inventory and methods of inventory control

Explain in detail, roles and responsibilities of hospital pharmacist

What are the dispensing procedure for narcotics and controlled substances in the hospital?

Explain role of pharmacist in internal training program Define automatic stop order for inpatient and outpatient Explain the role of pharmacist in ADR reporting and management

Explain the drug distribution system for out-patients

SECTION-C

- Ð Define prescribed medication order
- Q Draw a layout of hospital pharmacy

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J)

Define ADR.

Describe a drug interaction

- h) Define VED analysis.

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j. What are the sources of radiation used in U-V-Visible spectroscopy?
i. What is the principle of electrophoresis?
h. Define column chromatography.
g. What is atomic absorption spectroscopy?
f. What is flame photometry?
c. Give the name of two detectors used in IR spectroscopy.
d. What is fluorescence quenching?
c. Define affinity chromatography.
b. What is the Beer-Lambert law?
a. What are chromophores and auxochromes?
I. Write briefly :
SECTION-A
 INSTRUCTIONS TO CANDIDATES : SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.
Time : 3 Hrs. Max. Marks : 75
Roll No. Total No. of Pages : 02 Total No. of Questions : 13 B.Pharmacy (Sem7) INSTRUMENTAL METHODS OF ANALYSIS-THEORY Subject Code : BP-701T M.Code : 78387 Date of Examination : 19-05-2023

- Explain the theory and instrumentation of UV-Visible spectroscopy. Discuss the factors affecting the absorption spectra.
- Explain the theory and instrumentation of fluorimetry. Discuss the factors affecting fluorescence.

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4 Explain the theory, instrumentation and applications of high-performance liquid chromatography (HPLC)

SECTION-C

- Ś What are spectral shifts? Discuss the solvent effect on absorption spectra.
- 6 Write a note on nepheloturbidometry?
- 7 Photometry? What are the sources of radiation, wavelength selectors, and detectors used in Flame
- œ Explain the concept of electronic transitions and chromophores in UV-visible spectroscopy.
- 9 What is the instrumentation used in affinity chromatography?
- 0 What are the detectors used in UV-Visible spectroscopy?
- Ξ Discuss the factors affecting electrophoretic mobility in Electrophoresis
- 12 What are the properties of ion exchange resins?
- 3 What is the mechanism of ion exchange process in ion exchange chromatography?



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Roll No. Total No. of Questions : 13

Total No. of Pages : 02

B.Pharma. (Sem.-7) NOVEL DRUG DELIVERY SYSTEM-THEORY Subject Code : BP704T M.Code : 78390 Date of Examination : 24-05-2023

Time : 3 Hrs.

Max. Marks:75

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
- SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

1. Write briefly:

- a) Define liposome with examples.
- b) Give any two applications of monoclonal antibodies
- c) What is polymer membrane permeation controlled drug delivery systems?
- d) Give any two examples for controlled release polymers.
- e) Define microspeheres with example.
- f) Define isoelectric point
- g) Name any two methods for implant preparation.
- h) Define nanoparticles.
- i) Classify IUDs.
- Write the significance of ODDS.

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SECTION-B

- 2 Explain in detail about different approaches for Gastroetentive drug delivery systems along with advantages and disadvantages
- 3 Describe methods of preparation and applications of nanoparticles
- 4 Give a detail account on polymers along with applications.

SECTION-C

- 5 Describe solvent extraction and solvent evaporation techniques to prepare microspheres.
- 6 Write a note on mucoadhesive formulations
- 7 Give the structure of liposomes
- 8. Discuss the different barriers involved in ocular drug delivery & methods to overcome
- 9. Write the applications of gastro adhesive systems
- 10 Explain about biodegradable and non-biodegradable polymers.
- 11 Give an account of implants preparation
- 12 Describe the applications of IUDs
- 13 Describe Niosomes along with applications

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Total No. of Questions : 13

Total No. of Pages : 02

B.Pharma. (Sem.-7) INDUSTRIAL PHARMACY – II (THEORY) Subject Code : BP-702T M.Code : 78388 Date of Examination : 26-05-2023

Time : 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks
 SECTION-R contains Turner
- SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
 SECTION-C contains NHREE questions.
- SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

1. Write Briefly :

- a) Write the full form of TIFAC.
- b) Differentiate between NDA and INDA.
- c) Define validation.
- d) Define quality management.
- e) Write the importance of MoU.
- f) What do you mean by COPP and its importance?
- g) Define Change control.
- h) Define investigator's brochure.
- 1) Define the term OOS.
- j) What are the basic components of Bio-Equivalence studies?

SECTION-B

- 2. Discuss the various pilot plant scale up considerations for liquid orals.
- Describe the approved regulatory bodies and agencies for commercializing the product with suitable examples.
- What is the role of Bio-Equilance studies and also elaborate clinical research protocol.

SECTION-C

- 5. Describe six sigma concept.
- Write the responsibilities of CDSCO.
- 7. Describe regulatory affairs in brief.
- 8. Explain SUP AC guidelines.
- 9 What do you mean by technology transfer documentation and legal aspects related to it?
- 10. Describe the importance of ISO 9000 in brief.
- 11. Write various space requirements for pharmaceutical industry for solid dosage form.
- 12. Write a short note on technology transfer agencies in India.
- 13 Write a note on Drug developmental team in brief.

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Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma. (Sem.-7) PHARMACY PRACTICE - THEORY Date of Examination : 16-12-2022 Subject Code : BP-703T M.Code: 78389

Time : 3 Hrs.

Max, Marks : 75

INSTRUCTIONS TO CANDIDATES :

SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks

- Ņ has to attempt any TWO questions. SECTION-B contains THREE questions carrying TEN marks each and student each.
- SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

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SECTION-A

- . Write briefly :
- 2 Define patient medication adherence.
- 9 Write briefly about OTC drugs.
- c) Define Hospital formulary.
- d) Write the definition of a hospital
- e) Write briefly about pharmacy and therapeutic committee.
- 9 Define idiosyncracy
- g) ,Write briefly about patient medication history and its significance.
- Ē Define prescribed medication order. Write its various components.
- J Write briefly about renal function tests and their significance.
- Ŀ Define drug interactions. Give and example of beneficial drug interaction

SECTION -B

Discuss about organization structure of a hospital, medical staff involved in a hospital and their functions.

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- ىپ that require pharmacist. Discuss about patient counseling, steps involved in patient counseling and special cases
- 4 conditions. Discuss about organization of a drug store, types of material stocked and storage

SECTION-C

- Ś Define a hospital and discuss about classification of hospitals.
- 6 legal requirements. Discuss about organization and structure of retail and wholesale drug store, types and
- Write a note on detection of drug interactions

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- œ. Discuss about drug and poison information center and sources of drug information.
- 9 Define patient counselling and steps involved in patient counselling,
- 10. Discuss about prescribed medication order, its interpretation and legal requirements.
- 11. Discuss about purchase and inventory control in a drug store
- 12. Discuss about economic order quantity, recorder quantity level and methods used for the analysis of drug expenditure.
- Discuss in detail about various haematological tests and their significance.

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1 M-78387 (\$15)-121	j) Mention applications of paper chromatography.	i) Explain triplet excited state of molecule, giving example.	h) What do you mean by affinity chromatography?	g) What is migration time in electrophoresis?	f) How mobile phase flow affects chromatographic resolution of components?	e) What makes phenanthrene a fluorescent compound but biphenyl a non-fluorescent?	d) Give applications of gel chromatography.		b) 'Phenol has higher absorption maxima in basic medium than in acidic medium'. Why?		Write briefly : _	SECTION-A	to attempt any SEVEN questions carrying FIVE marks each and student has	A section of the student state of the stick of the store of the student state of the student student and student stude	INSTRUCTIONS TO CANDIDATES : 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks sech.	Time : 3 Hrs. Max. Marks : 75	B.Pharmacy (Sem7) INSTRUMENTAL METHOD OF ANALYSIS Subject Code : 8701T M.Code : 78387 Date of Examination : 12-12-2022	Total No. of Questions: 13
2 M-78387	NOTE: Utsclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.				13. Using jablonski diagram explain internal conversion and external conversion. (5)	12. Discuss the static quenching versus dynamic quenching. (5)	11. Describe instrumentation and applications of Spectrofluorimetry. (5)	 Write an account on various types of wavelength selectors used in spectrophotometers. (5) 	9. Write a comparative account on TLC and HPTLC. (5)	8. Discuss various factors affecting selection of appropriate buffer system for electrophoresis. (5)	technique. (5)	 What is Flame photometry? Discuss in detail flame atomization process. (5) 	5. Discuss instrumentation and applications of Turbidometry. (5)	. SECTION-C	b) Discuss various detectors used in IR spectrophotometer. (5)		 What is the principle of Atomic absoption spectroscopy? Discuss the components of an atomic absorption spectrophotometer. Explain its pharmaceutical applications. (10) What is the principle of HPLC? Describe various detectors used in it. (10) 	SECTION-B

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Total No. of Pages : 02

Total No. of Questions : 13 B.Pharma. (Sem.-7) INDUSTRIAL PHARMACY -- II (THEORY) & Subject Code : BP-702T M.Code : 78388 Date of Examination : 14-12-22

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
- BECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

AND

SECTION-A

- 1. Write briefly :
 - a. IND
 - b. NABL
 - c. CDSCO
- d. APCTD
- e. NRDC
- f. TIFAC
- g. BCIL
- h. TBSE
- i. SIDBI
- j. 005.

- 2. Discuss the pilot plant scale up considerationS for solids.
- 3. Discuss the ICH guidelines on quality risk management.
- 4. Discuss the technology transfer Process related to API and excipients.

SECTION-C

- 5. What are the responsibilities Regulatory Affairs Professionals?
- 6. Discuss about Clinical Research Protocols.
- 7. How the Data Presentation is done for FDA Submissions?
- 8. Discuss the concept of Six Sigma concept.
- Write a note on organization and responsibilities of Central Drug Standard Control Organization.
- 10. Discuss the role of leadership in TQM.
- 11. Write a note on ISO 9000 series.
- 12. Briefly discuss GLP.

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13. What are the regulatory requirements and approval procedures for New Drugs?

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Total No. of Pages : 02	 Classify Polymers with properties of each. Highlight the benefit of polymers in the formulation of controlled release drug delivery system.
Roll No.	6 mulation of controlled
Total No. of Questions : 13 B.Pharma. (Sem7) B.Pharma. OVETEM.THEORY	 a) Enumerate formulation approaches of microencapsulation.
B.Pharma. (Sem1) NOVEL DRUG DELIVERY SYSTEM-THEORY Subject Code : BP-704T	b) Explain the principle of muco-adhesion.
M.Code: 78390 M.Code: 19-12-2022 Date of Examination: 19-12-2022 Max. Marks: 75	4. Write short note on :
Time : 3 Hrs.	a) Ocular drug delivery system
INSTRUCTIONS TO CANDIDATES : 1. SECTION A is COMPULSORY consisting of TEN questions carrying TWO marks 2. SECTION A is COMPULSORY consisting of TEN marks each and student	b) Monoclonal antibodies
1. SECTION A IS COMPOSITION TO A SUBJECT SECTION A IS COMPOSITION TO A SUBJECT SECTION A IS COMPOSITION AND A SUBJECT SECTION AND A SUBJECT	SECTION-C
 SECTION-A is COMPUTSORY existing each. SECTION-S contains TIREE questions carrying TEN marks each and student has to attempt any TWO questions. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions. 	 Explain physicochemical and biological properties of drugs relevant to controlled delivery system.
SECTION-A	Explain different methods for the preparation of TDDS.
	What is the mechanism behind permeation enhancers?
1. Write briefly :	 Explain the pharmaceutical application of Gastroretentive drug delivery system.
a) Polymers	
	Give advantages and disadvantages of:
b) Bio-adhesive system	a) Microspheres
c) Permeation	
	b) .Nasal spray
d) Ion exchange	16. What are the approaches for the preparation and evaluation of nanoparticles.
e) GRDDS	11. Give pharmaceutical application of: a) IUDs b) Nanoparticles
f) Diffusion	12. Explain the formulation aspect of: a) Inhalers b) osmotic pumps.
g) Dissolution	13. Write short note on: a) Factors affecting permeation b) Transmucosal permeability
b) Bio-adhesive	
i) Ocular route	NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any
j) Noisome	paper of Answer Sheet will lead to UMC against the Student.
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> o) Name any one opium alkaloid and give its use. n) Write the structure and moa of chlorpromazine.

SECTION-B

Enumerate various steps involved in biosynthesis of cholesterol.

2

- س Comment upon stereochemistry of steroidal nucleus.
- Discuss in detail moa and SAR of Phenothiazines.

4

- Ś Give moa, synthesis and uses of Lignocaine.
- 6. Classify sedatives. Comment upon hydantoins used as sedatives.

SECTION-C

a) Outline the synthetic procedure of any one antianxiety agent.

7.

- ٩ Comment upon the chemistry of MAO inhibitors.
- <u></u> a) Give detailed account of chemistry of cardiac glycosides.
- b) What are antiarrythmic agents. Classify.
- 9. Give the structure and therapeutic uses of following drugs :
- a) Carbamezepine
- b) Nitrazepam
- c) Procaine
- d) Lignocaine
- c) Nikethemide
- 10. Explain the chemistry and SAR involved for various classes of opoid analgesics. Write down the synthesis for pentozacin.

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n 196 n.		
Enumerate adverse effect of antileprotic drugs.	m. Enumerate adv	
Name two anticancer drugs used for breast cancer.	Name two anti	
What is heavy metal poisoning?	k. What is heavy	
What are the side effects of biguanides?	What are the s	
What are the therapeutic effects of antiandrogen drugs?	What are the t	
What are the pharmacological effects of corricosteroids?	h What are the p	
Name two synthetic insulin preparations.	e. Name two syn	
What are endocrine glands?	What are endo	
ainfection?	e What is suprainfection?	
Differentiate natural and acquired resistance.	d. Differentiate n	
What are the adverse effects of anti-tuberculosis drugs?	c. What are the a	
What are narrow spectrum antibiotics?	b. What are narro	
ino lones?	a What are quinolones?	
	. Answer briefly :	
SECTION-A		
ontains FOUR questions carrying TEN marks each and students of any THREE questions.	SECTION-C contains FOUR have to attempt any THREE	
SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.	SECTION-B co have to attemp	
TRUCTION TO CANDIDATES : SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO	INSTRUCTION TO	
Max. Marks : 80	Time 3 Hrs.	
B.Pharma (2012 to 2016) (Sem.–7) PHARMACOLOGY–III Subject Code : BPHM-703 M.Code : 71755		
Total No. of Pages : 02 uestions : 10	Roll No. Total No. of Questions	



- n. What are innnunosuppressive agents?
- o. What is the treatment of barbiturate poisoning?

What are antituleer drugs? Explain pharmacological action of proton pump inhibitors.

2

- 3. Classify antiemetic drugs. Explain the pharmacological action of autihistaminics as antiemetics.
- 4. Classify antihyperglycemic drugs. Explain the mechanism of alpha glucosidase inhibitors.
- 5. Discuss pharmacological uses of corticosteroids.
- 6. Discuss antibiotics as antineoplastic agents.

SECTION-C

- 7. What are cyclosporine antibodies? Explain their pharmacological action, adverse effect and therapeutic uses.
- a. What are antineoplastic drugs? Discuss their toxicity profile.

œ

- b. Discuss general principle of cancer chemotherapy.
- 9. Explain the mechanism and therapcutic uses of :
- a. Tacrolimus
- b. Tamoxif
- Tamoxifen Glucocorticoids as immunosuppressive agent
- d. Sulphonamides

;

- 10. a. Discuss general principle of treatment of poisoning with reference to heavy metals.
- b. Discuss the pharmacological action and uses of nitrosoureas.

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1 2000-200	k)	j)	i)	h)	g)	f)	0	0		_		1.		S N	INST 1.	Tim		Ro Tot
(54)-162	k) What is humulin?	What is the application of biotechnology in pharmaceutical sciences?	Enlist methods of biotransformation of steroids.			What are different methods of enzyme immobilization?	e) What is hybridoma technology?	d) Define transformation.	c) What is fed batch culture system?	b) What do you understand by humoral immunity?	a) Define haptens.	Answer Briefly :	SECTION-A	SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt ANY FOUR questions. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt ANY THREE questions.	1. SECTION-A is COMPULSORY consisting of FIFTEEN quantity of the section of the s	Time : 3 Hrs. Max. Marks : 80	B.Pharma (2012 to 2016) (Sem7) PHARMACEUTICAL BIOTECHNOLOGY Subject Code : BPHM-701 M.Code : 71753	Roll No. of Questions : 10 Total No. of Pages : 02

- 1) What are the applications of amylase?
- m) Enlist the steps in isolation of penicillin.
- n) What do you understand by conjugation?
- o) What is the role of mutants in fermentation?

- 2 Elaborate the isolation of ethanol during fermentation.
- . L Write a note on adsorption method of enzyme immobilization with advantages and
- 4 Write a note on mutant isolation.
- Ś Differentiate batch and continuous culture system.
- What are different steps involved in gene cloning?

6

SECTION-C

- 7. Write a note on production of monoclonal antibodies.
- <u>,</u>20 What are biotransformation methods?

9.

- What are fermentors? What is the typical design of a fermentor?
- 10. Write a note on immune system with special reference to immune intolerance.

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stem.	1) Classify different types of oral drug delivery system.
	k) Difference between absorbable and non absorbable sutures.
1	j) 100 class room area
	i) Ligatures and sutures
Che,	h) Hortzontal laminar flow bench
	g) Lyophilisation
	f) Enumerate different official waters
	c) Spray congealing
	d) Polymers for film coating
	c) Base absorption =
	b) Gelatin B
	a) Arching and bridging
	i. Define :
A	SECTION-A
RUCTION TO CANDIDATES : SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each. SECTION-B contains FIVE questions carrying FIVE marks each and students iave to attempt any FOUR questions. carrying TEN marks each and students IECTION-C contains FOUR questions.	 INSTRUCTION TO CANDIDATES: SECTION-A is COMPULSORY consistin marks each. SECTION-B contains FIVE questions c. have to attempt any FOUR questions c have to attempt any THREE questions c have to attempt any THREE questions.
Max. Marks : 80	Time : 3 Hrs.
2016) (Sem.–7) UTICS–VIII Technology–II) : BPHM-702 71754	B.Pharma (2012 to 2016) (Sem7) PHARMACEUTICS-VIII (Pharmaceutical Technology–II) Subject Code : BPHM-702 M.Code : 71754
Total No. of Pages : 02	Total No. of Questions : 10



m) What is the principle behind development of CRDDS?

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 Difference between SVP and LVP. n) Erosion based controlled drug delivery systems.

SECTION-B

- 2 Explain the process of manufacturing of hard gelatin capsule shells.
- . س Enumerate different defects in manufacturing of tablets and explain any two in detail

4

- Ś Explain microencapsulation using polymerization complex emulsion method.
- How evaluation of parenterals is carried out?

.6

Discuss the factors influencing choice of containers.

SECTION-C

- .7 Discuss Physics of tablet compression in detail.
- <u>,</u> Discuss the quality control tests of capsules.
- 9 Discuss the biopharmaceutical factors involved in manufacturing of parenterals.
- 10. Differentiate between wet granulation and dry granulation. Enumerate different quality control tests of tablets and explain one of the official tests.

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Roll No.

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-7) PHARMACOLOGY-III Subject Code : BPHM-703 M.Code : 71755

Time : 3 Hrs.

Max. Marks : 80

Total No. of Pages : 02

INSTRUCTION TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains FOUR questions carrying TEN marks each and students have to ettempt any THREE questions.

SECTION-A

- 1. Answer briefly :
 - a) Why systemic antacids are not indicated for long term use?
 - b) Outline composition of ORS.
 - c) Discuss pharmacological treatment of motion sickness.
 - d) Define
 - i) Demulcents
 - ii) Astringents.
- e) Outline adrenal hormones.
- f) How T3 is different from T4.
- g) Mention adverse effects of oxytocin.
- h) Write non-contraceptive benefits of OCPS.

i) Outline reasons of drug resistance.
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- j) Classify sulfonamides.
- k) Outline toxicities caused by penicillin's.
- Outline treatment of paucibacillary leprosy.
- m) Give examples of topic drugs for superficial fungal infections.
- n) Outline treatment of atropine poisoning.
- o) How hypoglycemic drugs are different from anti-hyperglycemic?

SECTION-B

- 2. Outline drugs inhibiting translation.
- 3. Write a detailed note on cephalosporins.
- 4. Discuss pharmacology of estrogens.
- 5. Write a detailed note on immunosuppressive agents.
- 6. Discuss appetite stimulant and suppressants.

SECTION-C

- Discuss drugs useful for hyperthyroidism.
- Write a detailed note on penicillin.
- 9. Discuss drugs acting on uterus in detail.
- 10. Discuss barbiturate poisoning and its treatment in detail.

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Total No. of Pages : 02

Max. Marks : 80

Total No. of Questions: 10

B.Pharma (2011 to 2016) (Sem.-7) PHARMACEUTICS-VIII (Pharmaceutical Technology-II) Subject Code : BPHM-702 M.Code: 71754

Time : 3 Hrs.

1. SECTION-A IS COMPULSORY consisting of FIFTEEN questions carrying TWO INSTRUCTION TO CANDIDATES :

- SECTION-B contains FIVE questions carrying FIVE marks each and students 2
- SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any FOUR questions.
- have to attempt any THREE questions. 3.

SECTION-A

- a) Microencapsulation
- b) lyophilization
- c) Hemostastics
- d) Aseptic area
- e) First order release
- f) Capsule
- g) Gelatin
- h) Ligatures
- sotonicity
- Quality control
- k) Catguts
- Blster package
- m) Coacervation

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n) What is the need of granulation while preparing tablets?

List any two criteria of drug (s) essential for microencapsulation.

SECTION-B

- Q2. Highlight aqueous coating of tablets.
- Q3. Explain evaluation of microcapsules.
- Q4. Explain techniques for the preparation and filling of sterile powders.
- Q5. Enumerate pyrogen testing of injection containing antibiotics.
- Q6. Highlight different types of parenteral controlled released drug delivery systems.

SECTION-C

- Q7. a) Enumerate packaging equipments for the packaging of oral solid dosage forms.
 - b) Explain in vitro linvivo packaging testing and compare it with stability of dosage forms.
- Q8. a) How aseptic area could be designed and evaluated.
 - b) Enumerate IP method for the testing of pyrogen in parenterals.
- Q9. Highlight formulation, packaging and evaluation of paracetamol tablet IP.
- O10. Write note on :
 - a) Stability testing
 - b) Wound dressing
 - c) Organ replacement materials

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Q1. Define :

 B. Pharma (2011 to 2016) (Sem7) PHARMACCOLOGY-III Subject Code : BPHNARMACCOLOGY-III Subject Code : BPHNARMACCOLOGY-III Subject Code : BPHNARMACCOLOGY III Paper ID : (A2910) Max. Marks : 80 SECTION-TO CANDIDATES : has to attempt any FOUR questions carrying FIVE marks each and students has to attempt any FOUR questions carrying TEN marks each and students has to attempt any THREE questions carrying TEN marks each and students has to attempt any THREE questions carrying TEN marks each and students has to attempt any THREE questions carrying TEN marks each and students b Classify anti-ulcer drugs with study examples. C. Define carminatives and demulcents. G. What is Yuzpe method? What do you mean by soft-steroids? S. Name antagones used to treat atropine and organophosphate poisoning. I. Differentiate between diabetes <i>mellitus</i> and diabetes <i>mapidus</i>. What is the role of vitamin Di? Max are neuroixins? Give examples. What a reducing of vitamine in emesis. What is that do of vitamine in emesis. What is minpill? (54) 736 	 B.Ph. Time : 3 Hrs. INSTRUCTION TO CANDIDA 1. SECTION-A is COMPUL 2. SECTION-C contains FID has to attempt any FOUR 3. SECTION-C contains FID has to attempt any FOUR 4. Answer briefly : a Define astringents with sub- b Classify anti-ulcer drugs v c Define caminatives and d d Name two antipseudomonic c What is Yuzpe method? 1 What oyu incan by soft- 3 Name antagonists used to the 1 Differentiate between diabe What is the role of vitamin I k Discuss 5-a reductase inhibit 1 Define emesis and role of his m What is thalidomide tragedy? What is minipill?
Roll No. of Questions : 10	Roll No. Total No. of Ques

- 2 Write short notes on
- a. Cotrimoxazole
- b. Organophosphate poisorung
- Discuss the mechanism of action of the following :
- a. Quinolones

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- b. Corticosteroids
- Classify anti-HIV drugs. Discuss the mode of action, uses and side-effects of protease inhibitors.
- Discuss the general principles of management of poisoning
- 6 Give an account on hepatic and renal toxicity.

SECTION-C

Write notes on the following

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- a. Gliptins
- b. Cephalosporin
- Discuss the following :

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- a. Proton pump inhibitors
- b. Oral contraceptives

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- Discuss the biosynthesis and secretion of thyroid hormone. Discuss the treatment for diseases associated with hypothyroidism.
- 10. Classify anti-cancer drugs. Discuss pharmacology of alkylating agents



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	2 Mi-71 256	j) Give structure and IUPAC name of one antiarthythmic drug	i) Write synthesis of pethidine	h) Write mode of action of monoamine oxidase inhibitors.	g) What are antranginals? Give one example.	f) Write mode of action of a potassium sparing diuretic.	e) What are expectorants? Give one example: used as CNS :	d) Give structure and mechanism of action of nalorphine. chemically to	c) Write structure and uses of norethisterone.	b) What are aldosterone antagonists? Write their uses. Q8 a) Discuss S.	action of chlorpromazine.	Q1 Auswer briefly :	SECTION-A	Q6 Give classif	ns carrying fen mana warn wir structure				Time : 3 Hrs. Max. Marks : 80		B.Pharma (2011 to 2016) (Sem7) PHARMACEUTICAL CHEMISTRY-VII n) Give sti	Total No. of Questions : 10 m)What a	Total No. of Pages : 02
Dec 20/0	C.	- A - A - A - A - A - A - A - A - A - A	Ch		An College		Q10 What are natural and synthetic CNS stimulating agents? Give the detailed account of drugs used as CNS stimulating agents.	Q9 Give the structure of morphune. How the structure of morphune has been modified chemically to develop new opioid analgesics? Discuss with examples	b) Give the chemical name and structure of troxidone	SAR of oxazolidinediones as anticonvulsants	Q7 Classify various diurclics on the basis of their mechanism of action. Give synthesis and medicinal uses of bendrofluazide.	SECTION-C		Q6 Give classification of anticonvulsants. Write synthesis of phenyloin	Q5 Write structure, mode of action and uses of stilbesterol	Q4 Provide a detailed account of general anaesthetics.	ie synthesis of progesterone from stigmasterol.	Q2 Discuss SAR of glucoconticoids	SECTION-B	o) What are methylxanthines?	n) Give structure of any one antihyperlipidemuc drug	m) What are anabolic steroids? Give their uses.	1) Give structure of a central nervous system stimulant.

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Roll No.

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-7) PHARMACEUTICS-VIII (Pharmaceutical Technology-II) Subject Code : BPHM-702 Paper ID : [A2909]

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO

- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- 3. SECTION-C contains FOUR questions carrying TEN marks each and students has to attempt any THREE questions.

SECTION-A

Q.1. Answer briefly :

a. Name two preservatives used in parenteral formulations.

b. What is the moisture content for hard gelatin capsule shell?

c. Define a capsule.

d. Name two binders used in tablets.

e. Discuss disintegration tests for enteric coated tablets.

What is water for injection? £

Define orange peel effect in tablet coating.

in. Define sticking and picking in tablets.

Define catguts. L.

Discuss leak test for ampoules.

k. Define Isotonicity.

Why preservatives are not added to large parenterals? 1.

m. Discuss Sham and Lal Test for pyrogens test.

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n. What is explotab and cab-o sil?

o. Name two directly compressible diluents for the tablets

SECTION-B

Q.2. Distinguish between hard gelatin capsules and soft gelatin capsules. Discuss in detail the various evaluation tests for capsules.

- Q.3. Describe the hydrolytic resistance test of glass containers for parenterals.
- Q.4. Elaborate in detail upon absorbable and non-absorbable sutures.
- Q.5. Describe the method of coacervation for microencapsulation.
- Q.6. Write a note on various types of coating materials.

SECTION-C

- O.7. What are control release delivery systems? Elaborate upon its advantages and disadvantages.
- Q.8. Distinguish between a primary and secondary packaging container. List the major factors influencing the selection of these containers.

Q.9. Explain the evaluation methods of parenteral products.

Q.10.Discuss the various coating defects, their causes and remedies.



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1 M 71753	k) Define biotransformation	j) Compare and contrast transformation and transduction processes.	1) What is continuous batch culture? How is it useful?	h) What are the uses of streptokinase?	g) Enlist common techniques used for immobilization of bacteria.		e) Define restriction endonucleases.	d) What is acquired immunity?	c) How does endocytosis differ from phagocytosis?	b) Give the importance of surface immobilization by covalent coupling.	a) Define batch culture for microbial production.	I. Answer briefly :	SECTION-A	INSTRUCTION TO CANDIDATES: 1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each. 2. SECTION-B contains FIVE questions carrying FIVE marks each and students bave to attempt ANY FOUR questions. 3. SECTION-C contains FOUR questions. 5. SECTION-C contains FOUR questions.	Time: 3 Hrs.	na (2011 to 2016) (Sem7) EUTICAL BIOTECHNOLOG oject Code : BPHM-701 Paper ID : [A2908]	Roll No. of Questions : 10
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1) What are Immunoglobulins? Give examples

m) What are monoclonal antibodies?

n) Define mutants with examples.

o) Differentiate between haptens and antigens

SECTION-B

- 2. Discuss various hypersensitivity reactions.
- 3. Write a note on kinetics of cell growth
- 4. Discuss the nutritional requirements of bacteria.
- 5. What is gene cloning? Give its significance.
- 6. Describe the methods of irreversible enzyme immobilization.

SECTION-C

- Explain various components of innate immune system using a flow chart, giving significance of each component.
- Enumerate the hybridization process of DNA.
- 9. Explain in detail the fermentation process employed for the production of vitamin B_{12}
- 10. Write notes on

a) Fed-batch culture

b) Humulin

c) Hyaluronidase

d) Use of biotransformation in production of steroids

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