M. PHARM.
P'rewlics-II Sem2017 - 2018

Wiled Application List (Fresh)

Even Semester Examination 2017-18

M.PHARMA. (Pharmaceutics) (SEMESTER-II)

MOLECULAR PHARMACEUTICS (NANO TECHNOLOGY & TARGETED DDS)

Time: 03:00 Hours Max Marks: 75 Attempt any five questions. All questions carry equal marks. 0.1 ·a. Discuss the various strategies for brain targeting. (7.5)b. Discuss brain targeting with special emphasis on lipid carriers. (7.5)0.2 Discuss the method of preparation and evaluation of microcapsules (7.5)a. b. Differentiate niosomes, aquasomes, phytosomes and electrosomes (7.5)Q.3 Discuss preparation, characterization and application of monoclonal antibodies (15)Q. 4 Discuss and enumerate the role of propellants in aerosol formulation. (7.5)a. Write a brief note on floating microspheres as gastroretentive drug delivery system (7.5) b. Q.5 What is Gene therapy? Enumerate various non-viral vectors in gene therapy. (15)Q.6 What are liposomes? Discuss various methods of preparation and evaluation (15)Give an exhaustive note on pharmacokinetic consideration of novel drug delivery system (15) Q. 7 Q.8 Describe the role of antisense molecules and aptamers as future drug delivery systems (15)

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Even Semester Examination 2017-18

M.PHARMA. (Pharmaceutics) (SEMESTER-II)

ADVANCED BIPHARMACEUTICS & PHARMACOKINETICS

Time	e: 03:0	0 Hours May			
		Plax	Marks : 75		
Note	: Ans	wer any five questions. All questions carry equal marks.			
Q.1	a.	Discuss the role of pH-partition theory in absorption of drugs from GIT	(7.5)		
	b.	Discuss the composition and role of simulated gastric and simulate	d intestina		
		fluid in studying dissolution of drug.	(7.5)		
Q.2	Explain various dissolution apparatus used in dissolution testing of a pharmaceutical				
	dosage form.		(15)		
Q.3	a.	Discuss the role of in vitro-in vivo correlation in designing a dosage for	m. (7.5)		
	b.	Enumerate the factors influencing the bioavailability of a drug from dosage form.			
			(7.5)		
Q.4	Derive various pharmacokinetic parameters for a drug when it follows one compartment				
		model-intravenous bolus administration.	(15).		
Q.5	a.	Derieve Michaelis – Menten equation for estimation of k_{max} and v_{max}	(7.5)		
	b.	Elaborate the role of Lineweaver burk plot in determination of enzyme	e inhibition		
		kinetics.	(7.5)		
Q.6	Discu	iss various methods to assess the bioavailability of a drug from drug dos	age form.		
			(15)		
MPH-202T/280 (1)			[P.T.O.]		

Q.7 Give short notes (any three):

(5×3=15)

- a. Cytochrome P450-Based Drug Interactions
- b. clinical significance of bioequivalence studies
- c. crossover study designs
- d. Pharmacokinetics and pharmacodynamics of biotechnology drugs

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Even Semester Examination 2017-18

M.Pharm. (Pharmaceutics) (SEMESTER-II)

COMPUTER AIDED DRUG DEVELOPMENT

Time: 03:00 Hours Max Marks : 75

Note: Attempt any five questions. All questions carry equal marks.

Q.1 Write an exhaustive note on Statistical modeling in Pharmaceutical research and development.
 Q.2 a. Give salient features of ICH Q8 guidelines.

Q.2 a. Give salient features of ICH Q8 guidelines. (7.5)

b. Discuss population modeling. (7.5)

Q.3 Discuss the factorial design, optimization technology & screening design in dosage form development.
(15)

Q.4 a. Give role of legal protection of innovative uses of computers in R&D. (7.5)

b. How the biopharmaceutical characterization of dosage form is made based on
 Fed vs. fasted gastric state. (7.5)

Q.5 Discuss computational modeling of drug disposition. Enumerate various software modules used in computataional modeling of drugs. (15)

Q.6 Elaborate the ethics of computing in pharmaceutical research. (15)

Q.7 How artificial intelligence can influence the prediction of biological activities. (15)

Q.8 Discuss Biowaiver considerations in computer-aided biopharmaceutical characterization of drug dosage form. (15)

Even Semester Examination, 2017-18

M.PHARMA. (SEMESTER-II)

COSMETICS AND COSMECEUTICALS

Time: 03:00 Hours Max Ma			rks : 75		
Note	: Atten	npt any five questions. All questions carry equal marks.			
Q1.	Attempt the following:				
	(a)	Define the term cosmetics as per Drug and Cosmetic Act.	(5)		
	(b)	Discuss the regulatory provisions relating to manufacture of cosmetics	s. (10)		
Q2.	Attempt the follow ing:				
	(a)	What is difference between cosmetics and dermatological products.	(5)		
	(b)	Discuss the following skin pathologies: acne, pigmentation, prickly he odor	eat, wrinkles (2.5×4)		
Q.3	Attempt the following:				
	(a)	Discuss manufacturing and evaluation of nail lacquer in brief	(7.5)		
	(b)	Discuss deodorants and anti-perspirants	(7.5)		
Q.4	Attempt the following:				
	(a)	Discuss various preservatives used in cosmetics.	(7.5)		
	(b)	Discuss the various factors affecting microbial preservative efficacy.	(7.5)		
Q5.	Attempt the following:				
	(a)	Enlist and discuss the various perfume ingredients listed as aller regulation	gens in EU (7.5)		
	(b)	Explain the manufacturing of various type of soaps	(7.5)		
MPH-204(T)(New)/300 (1) [F			.T.O.]		

Explain SPF in brief. Q.6 (a) Explain the manufacturing considerations of sunscreen preparations. (10)(b) What are dentifrices? Explain the use of various abrasives in dental preparations. (a) Q7. (7.5)Give a detailed note on manufacturing of cold cream and vanishing cream. (7.5) (b) Discuss various herbal ingredients used in hair and skin care. (7.5)Q8. (a) (7.5)Give a detailed note on preservation of herbal cosmetics. (b)
