Exam Seat N	No: Enrollment No:		
	C.U.SHAH UNIVERSITY Wadhwan City		
FDCCONADA 1		: 27/06/2014	
Subject Name:: Modern Pharmaceutical Analysis		Time:02:00 To 5:00	
(2) Use of Pro (3) Instruction	Ill Questions of both sections in same answer book / Supplementary or by a same answer book / Supplementary or same any other electronic instrument is prohibited. In same answer Book are strictly to be obeyed. diagrams & figures (If necessary) at right places		
(5) Assume su	uitable & Perfect data if needed		
	SECTION-I		
Q.1	Write comment on Following	1X7=7	
i.	Amino acid mole Percent		
ii.	Re-test Date		
iii.	Shelf life		
iv.	High risk API		
V	Pilot batch		
vi.	Supporting Data		
vii.	Interchangeability		
V11.			
	AH UNIVER		
Q.2 (a)	Give a brief account on "tryptic mapping".	5	
(b)	Discuss principle and application of Isoelectric focusing technique		
(0)	of electrophoresis.		
(c)	Write note on Amino acid sequence analysis.	4	
(0)	OR	•	
(a)	Discuss the properties associated with solid at Particulate level.	5	
(b)	Write short note on solid state analysis.	5	
(c)	What is the effect of impurities on drug stability and its therapeuti		
(C)	action?	C 4	
Q.3 (a)	Explain the importance of pre-formulation studies.	7	
	Describe the analytical techniques for pre-formulation studies.	7	
(b)	OR	/	
(a)	Describe thermodynamic properties in Preformulation study.	7	
(b)	Describe the US-FDA guidelines in pharmaceutical analysis	, 7	
(0)	SECTION-II	,	
Q.4	Write comment on Following	1X7=7	
I.	Process capability index, Cp	1217-7	
ii.	Automation		
iii.	Segmented flow analysis		
iv.	Parallel Automation Analysis		
V.	Crude Drug		
v. vi.	Radioactivity		
vi. Vii.	Draize test		
4 11.	Diame tout		





Q.5 (a) (b)	Discuss bioburden testing of parenteral products. How are the parenteral dosage forms evaluated for sterility testing?	5 5
(c)	Describe in detail bacterial endotoxin testing in parenteral products.	4
	OR	
(a)	Write Short note on patch test.	5
(b)	Define the term 'Cosmetic'. Give a brief account on ingredients used in manufacturing cosmetic formulation,	5
(c)	What is Automated Analysis? State its advantages and briefly explain the concept	4
Q.6 (a)	What do you mean by radiopharmaceuticals? Give a brief account on Q.C tests for radiopharmaceuticals	7
(b)	Describe application of NIR in physicochemical characterization of solid dosage form.	7
	OR	
(a)	Enlist various compendia parameter of standardization of herbal drugs and formulations and discuss any two of them in detail.	7
(b)	Discuss ICH guidelines Q1A (R2)	7
	44 44 44 45 45 45 45 45 45 45 45 45 45 4	



Page **2** of **2**

