MALIBA PHARMACY COLLEGE
MID SEMESTER EXAMINATION APRIL 2014
SECOND SEMESTER M.PHARM. – QUALITY ASSURANCE
040030202 MODERN PHARMACEUTICAL ANALYSIS

DATE: 07/04/2014 **MAXIMUM MARKS: 70**

Instructions:
1] Attempt any five questions
2] Figures to the right indicate full marks

Q.1	a	What is tryptic mapping? Write its uses and limitations.	6
	b	Discuss the compendial testing of formulated products.	6
	c	What is the significance of harmonizing the testing, validation, and validation requirements associated with pharmaceutical materials?	2
Q.2	a	Explain the principle for proteins and peptide sequence analysis by (i) Sanger degradation and (ii) Edman degradation	6
	b	Describe the factors affecting retention in ion exchange chromatography. Explain how IEC aid in proteins and peptide analysis.	6
	c	Enlist the different tests for evaluation of solid dosage forms.	2
Q.3	a	What are impurities? Discuss their different types giving examples.	8
	b	Explain the principle of isoelectric focusing. State its applications.	6
Q.4	a	Classify cosmetics. Describe the physical and chemical methods for evaluation of shampoos and powders.	8
	b	What are radiopharmaceuticals? Describe the quality control tests performed for their evaluation.	6
Q.5	a	Enlist the quality control methods for medicinal plant materials as per WHO. Describe the determination of following (i) pesticides residue in plant material (ii) extactable matter (iii) ash value.	8
	b	Discuss the determination of powder characteristics at preformulation stage.	6
Q.6	a	Explain the term partition coefficient and solubility. Describe the methods for determination of solubility.	8
	b	Describe any one radiochemical method of analysis.	6
Q.7	a	Discuss briefly the analytical techniques available for preformulation study.	8
	b	Explain excipient compatibility studies.	6

****