(2½ hours) Total marks: 60

- N.B.: (1) All questions are compulsory.
 - (2) Figures to the right indicate full marks.
 - (3) Draw neat and labeled diagrams wherever necessary.

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Q.1.	Explain with a suitable example use of LC-MS/MS technique in quantitation of analytes.	[12]
	OR VONTE ENTRY	2000
Q.1.	Explain with a suitable example use of mass spectrometric technique in identification and quantitation of peptides.	[12]
Q.2.	Describe the cytochrome P450 system and its application in drug metabolite research.	[12]
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Q.2.	Describe the significance and application of LC-MS/MS in quantitation of drug metabolites.	[12]
Q.3.	With a suitable example describe the use of LC-MS in evaluating purity of drug molecules. Add a note on the use of LC-MS/MS in elucidation of molecular structure. OR	[12]
Q.3.	Bring out the importance of sample processing while quantifying pesticide residues from food products. Add a note on the application of hyphenated techniques in pesticide residue analysis.	[12]
Q.4.	Using suitable examples describe alpha, beta and gamma emitters. Add a note on radioactive decay. OR	[12]
Q.4.	Explain how a scintillation counter is used in measuring radioactivity. Add a note on autoradiography.	[12]
Q.5.	Write short notes on (Any three):	
a)	Multiple reaction monitoring in LC-MS technique	[4]
b)	Working of GM counters	[4]
(c)	Radioactive tracers	[4]
d)	Biological magnification	[4]
e)	Prodrug	[4]
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