

Class: XII

Spectroscopy

Week	Day	Chapter	Page	Content	Reference (Book)	
4	Wednesday Thursday	Infra red (IR) Spectroscopy			1. Identification of functional groups by ir 2. Infra red spectroscopy of compounds containing functional groups like C=C, O-H, C=O(alds & ketones), -CO ₂ H, -CO ₂ R, -CONH ₂ , CONH-, C≡C, C≡N, tec. 3. Infra red spectroscopy of H- bonded and non-bonded compounds	Edexcel A2 CHEMISTRY Book
						Chemistry --R N Ramsden
		Nuclear Magnetic Resonance (¹ H-nmr)			1. nmr of H-containing organic compounds 2. Types of H present in common organic compounds 3. The chemical shift values of different types of protons 4. Ratio of H present in organic compounds (integration) 5. Coupling in nmr 6. Identification of simple organic molecules by nmr	Edexcel A2 CHEMISTRY Book
						Chemistry --R N Ramsden
Nuclear Magnetic Resonance (¹³ C-nmr)						
5	Wednesday Thursday	1. ¹³ C- nmr of simple organic compounds 2. Coupling in ¹³ C- nmr 3. ¹³ C- nmr of (i) -CH ₃ , (ii) (-CH ₂ -), (iii) >CH-, & (iv) >C< carbons			Edexcel A2 CHEMISTRY Book	
					Chemistry --R N Ramsden	
Mass Spectrometry (MS)						
		1. Mass spectrometry (MS) of simple organic compounds 2. Use of mass spectrometry (MS) 3. Molecular ion peak (M ⁺ peak) 4. Base peak (or Parent peak) 5. Fragmentation pattern 6. Mass spectrometry of inorganic molecules (i) isotope detection (ii) calculation of Rel Av At mass			Edexcel A2 CHEMISTRY Book	
					Chemistry --R N Ramsden	

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Md. Habibul Bahar

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