

Question	Answer	Marks	Guidance																																
3 (a) (iii)	<table><tr><th colspan="4">¹H NMR spectrum for methionine</th></tr><tr><th>Type of proton(s)</th><th>Chemical shift</th><th>Splitting pattern</th><th>Relative peak area</th></tr><tr><td>NH₂</td><td>4.5</td><td>singlet</td><td>2</td></tr><tr><td>H₂C-S-</td><td>2.1</td><td>triplet</td><td>3</td></tr><tr><td>-S-CH₂-</td><td>2.4</td><td>triplet</td><td>2</td></tr><tr><td>S-CH₂-CH₂</td><td>0.7-2.0</td><td>multiplet OR quartet</td><td>2</td></tr><tr><td>CHNH₂</td><td>2.5-3.0</td><td>triplet</td><td>1</td></tr><tr><td>OH</td><td>11-12</td><td>singlet</td><td>1</td></tr></table> <p>Rows can be in any order IGNORE extra rows Do not need to show bonds between atoms</p>	¹ H NMR spectrum for methionine				Type of proton(s)	Chemical shift	Splitting pattern	Relative peak area	NH ₂	4.5	singlet	2	H ₂ C-S-	2.1	triplet	3	-S-CH ₂ -	2.4	triplet	2	S-CH ₂ -CH ₂	0.7-2.0	multiplet OR quartet	2	CHNH ₂	2.5-3.0	triplet	1	OH	11-12	singlet	1	5	<p>ALLOW any value within ranges given for δ (ppm) on the Data Sheet</p> <p>IGNORE reference to NH₂ signals (given as example)</p> <p>GUIDANCE</p> <ul style="list-style-type: none">mark by rowsALL data in row must be correct for each markALLOW 'triplet of doublets' or 'doublet of triplets' for multiplet/quartet signal from -CH₂CH₂S- <p>ALLOW quartet</p> <p>ALLOW a response that implies a single peak OR 'no splitting'</p> <p>ALLOW a response that implies a splitting into three for a triplet/into four for a quartet</p> <p>Clear and unambiguous identification of the protons (when more than one type is present) other than by position number should be credited eg for CHNH₂ could be HCOO or CHN or HCN or CH₂CH</p> <p>eg for S-CH₂-CH₂ could be CH₂CH(NH₂) or COCH₂C or CH₂CH₂ or RCH₂R or RCH₂</p> <p>eg 'OH between COOH and NH₂' OR identification by number labels on chemical structures</p>
¹ H NMR spectrum for methionine																																			
Type of proton(s)	Chemical shift	Splitting pattern	Relative peak area																																
NH ₂	4.5	singlet	2																																
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CHNH ₂	2.5-3.0	triplet	1																																
OH	11-12	singlet	1																																
	Total	14																																	

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Sabine Zange



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