

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> Rows can be in any order IGNORE extra rows Do not need to show bonds between atoms	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	ALLOW any value within ranges given for δ (ppm) on the Data Sheet IGNORE reference to NH₂ signals (given as example) GUIDANCE - mark by rows ALL data in row must be correct for each mark ALLOW 'triplet of doublets' or 'doublet of triplets' for multiplet/quartet signal from $-\text{CH}_2\text{CH}_2-$ ALLOW quadruplet ALLOW a response that implies a single peak OR 'no splitting' ALLOW a response that implies a splitting into three for a triplet/into four for a quartet 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 eg for S-CH₂-CH₂ could be CH₂CH(NH₂) or COCH₂C or CH₂CH₂ or RCH₂R or RCH₂R eg 'OH between COOH and NH₂' OR identification by number labels on chemical structures
¹ H NMR spectrum for methionine																																			
Type of proton(s)	Chemical shift	Splitting pattern	Relative peak area																																
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	Total	14																																	

F324 June 2014 Unofficial Markscheme

J Elliott



F324 June 2014 Unofficial Markscheme:

Reviewing **F324 June 2014 Unofficial Markscheme**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**F324 June 2014 Unofficial Markscheme**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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