

F324: Rings, Polymers & Analysis

4.3.1 – Chromatography MARK SCHEME

1.	(i) adsorption ✓ <i>ALLOW</i> partition OR adsorption <i>IGNORE</i> solubility OR desorption <i>DO NOT ALLOW</i> absorption	1	[4]
	(ii) measure how far each spot travels relative to the solvent front or calculate the R_f value ✓ compare R_f values to those for known amino acids ✓ <i>ALLOW</i> compare R_f values to database <i>ALLOW</i> compare to known amino acids <i>DO NOT ALLOW</i> retention times for first mark, but the 2nd mark would be available as ✓ ECF <i>ALLOW</i> alternative approach: on the same plate compare position of spots ✓ with known amino acids ✓	2	
	(iii) (amino acids won't separate because) similar compounds have similar R_f (values) ✓ <i>ALLOW</i> spots often overlap OR don't (fully) separate <i>ALLOW</i> they have similar R_f (values) or similar adsorptions or similar retention times ECF to (ii)	1	
2.	(i) one amide link shown correctly (1) glycine and phenylalanine parts shown correctly (1) proline linked correctly (1)	3	[7]
	(ii) 6 (1)	1	
	(iii) gas/liquid chromatograph separates the tripeptides (1) mass spectrometer produces a distinctive fragmentation pattern (1) identification by computer using a spectral database (1)	3	
3.	(a) R_f value is distance moved by a component/spot/solute divided by distance moved by solvent. (1) Retention time is the time between injection and emergence (or detection) of a component. (1)	2	

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Richard Foulston



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The Top Books of the Year F324 2014 Mark Scheme The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. F324 2014 Mark Scheme : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. F324 2014 Mark Scheme : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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