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NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY DEPARTMENT OF APPLIED CHEMISTRY BACHELOR OF SCIENCE HONOURS DEGREE SUPPLEMENTARY EXAMINATIONS – AUGUST 2013 CHROMATOGRAPHIC SEPARATIONS – SCH 4292 TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATES

Answer <u>ANY FOUR (4)</u> questions out of <u>FIVE (5)</u> questions provided. Each question carries 25 marks.

1. Compound A migrates 7.6cm from its point of application on a thin-layer chromatographic plate, whereas in the same time the solvent front migrates 16.2cm beyond the point of sample application.

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	(c)	What are the desirable characteristics of HPLC detector?	[5 marks]
5.	(a)	Explain why pH affects the separation of amino acids by electroph	oreses. [10 marks]
	(b)	Give an example of the application of electrophoresis.	[10 marks]
	(c)	Describe the effect of pressure on super critical fluid chromatogra	ms. [5 marks]

END OF QUESTION PAPER!!!