UNIVERSITI MALAYSIA PAHANG



PROCESS	CHEMISTRY	AND PHARMA	ENGINEERING
	QUI	Z 1	

NA	AME :	
M	ATRIC NO:	
1.	List four (4) process variables.	4 marks)
i.		————
ii.		
iii.		
2.	Define flow rate.	
		(1 mark)
3.	The mass flow rate of <i>n</i> -heptane ($\rho = 0.659 \text{ g/cm}^3$) in a pipe is 7.99 g/s. Determine the number of the n-heptane.	nine the
		2 marks)
4.	A 0.53-molar aqueous solution of sulfuric acid flows into a process unit at a rate m³/min. The specific gravity of the solution is 1.03. a. Calculate the mass concentration of H ₂ SO ₄ in kg/m³	e of 1.30
		3 marks)