

 KEMENTERIA PENDIDIKAN MALAYSIA  POLITEKNIK MALAYSIA JABATAN MATEMATIK, SAINS DAN KOMPUTER		COURSE CODE/ COURSE NAME		PBM1035 INTENSIVE MATHEMATICS	
		COURSEWORK ASSESSMENT		QUIZ 2	
		SESSION		DECEMBER 2018	
		DURATION	20 MINS	CLO1	10 MARKS
CLO2					
CLO3					
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PROGRAMME/ SECTION	IPP1		TOTAL MARKS		
				10 MARKS	

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1 [CLO1, C1]

[7 marks]

CLO1, C2

Compute the following problems using BODMAS rule **without calculator** in the simplest form.

- (a) $-12 - (40 \div 8) + (-2)$
 (b) $3(4 + 8) - 12$
 (c) $5\frac{1}{2} \div [\frac{3}{8} - \frac{1}{6}]$

Question 2

[3 marks]

CLO1, C3

Solve $20.65 \div 59$ manually (**without calculator**).

$$\begin{aligned} \text{a)} \quad & -12 - (40 \div 8) + (-2) \\ & = -12 - (5) + (-2) \\ & = -17 + (-2) \\ & = -19. \end{aligned}$$

$$\begin{aligned} \text{b)} \quad & 3(4 + 8) - 12 \\ & = 3(12) - 12 \\ & = 36 - 12 \\ & = 24. \end{aligned}$$

$$\begin{aligned} \text{c)} \quad & 5\frac{1}{2} \div [\frac{3}{8} - \frac{1}{6}] \\ & = 5\frac{1}{2} \div [\frac{3 \times 3}{8 \times 3} - \frac{1 \times 4}{6 \times 4}] \\ & = 5\frac{1}{2} \div [\frac{9}{24} - \frac{4}{24}] \\ & = 5\frac{1}{2} \div [\frac{9-4}{24}] \\ & = 5\frac{1}{2} \div \frac{5}{24} \end{aligned}$$

Question 2

$$\begin{array}{r} 0.35 \\ 59 \overline{) 20.65} \\ \underline{0} \\ 12906 \\ \underline{177} \\ 295 \\ \underline{295} \\ 0 \end{array}$$

$$\begin{array}{r} 159 \\ + 59 \\ \hline 48 \\ + 59 \\ \hline 137 \\ + 59 \\ \hline 236 \\ + 59 \\ \hline 295 \end{array}$$

$$\begin{aligned} & = \frac{5\frac{1}{2}}{\frac{5}{24}} \\ & = \frac{51}{2} \times \frac{24}{5} \\ & = \frac{11 \times 24}{2 \times 5} \\ & = \frac{264}{5} \\ & = 26\frac{4}{5} \end{aligned}$$