	Universiti Malaysia PAHANG Engineering + Technology + Creativity	COURSE: Computer Architecture & Organization			MARK :
		TOPIC: ASSEMBLY LANGUAGE		COURSE CODE: BCN1043	12.0
		ASSESSMENT: QUIZ	BIL: 3	DATE:	/10

Matric No	:
Section	:

- 1. Give **TWO (2)** advantage of Assembly Language compared to high-level language.
- require less memory
- require less execution time
- able to perform highly technical tasks that would be difficult, if not impossible in high-level language
- 2. Write the instruction set for the expression of $Y = (A-B) / (C+D \times E)$:
 - a) Three instruction-address format SUB Y, A, B MPY T, D, E ADD T, T, C DIV Y, Y, T
 - b) Two instruction-address format MOVE Y, A
 SUB Y, B
 MOVE T, D
 MPY T, E
 ADD T, C
 DIV Y, T
 - c) One instruction-address format
 - LOAD D MPY E ADD C STOR Y LOAD A SUB B DIV Y STOR Y

[2 Marks]

[2 Marks]

[3 Marks]

[3 Marks]