Information for candidates
1. This Quiz paper contains 1 question totaling 5 marks
2. The marks for parts of question are shown in round brackets.

Advices to candidates
1. You should attempt all sub questions.
2. You should write your answers clearly.

Question 1 (5 marks)

Write a complete assembly program that must contain the following:

- Define array of 8 signed words initialized to 3, -1, 4, 2, 5, 9, -2, -7 in the data segment (.DATA).
- Assume that real Addressing-mode is used.
- Your program should read the numbers from memory and find the sum of 3, 4, 5, and -2.
- Store the result in memory (SUM1).
- Use loop structure.
- Use indexing addressing memory mode.