Marking Scheme

Quiz Paper
BSc CE

Microprocessors (0630371)

Second Quiz (B) First semester Date: 11/12/2011
Section 1
Weighting 5% of the module total

Lecturer: Dr. Qadri Hamarsheh
Coordinator: Dr. Qadri Hamarsheh
Internal Examiner: Eng. Anis Nazer
Question 1 This question is attributed with 5 marks if answered properly; the answer is the following:

TITLE Calculate the sum of some elements of array
.data
   NUMBERS SWORD 3, -1, 4, 2, 5, 9, -2, -7
   SUM1 SWORD ?
   NumPtr WORD NUMBERS
.code
main PROC
   mov ax, 0h; SUM =0
   mov si, NumPtr ; store the address of the array
   mov cx, lengthof NUMBERS ; saved in the NumPtr pointer in esi
   mov cx, lengthof NUMBERS ; Set ecx to the number of
   ; elements in the array (2 marks)
L1: add ax, [si];
   add si, 2*type NUMBERS;
   dec cx
   loop L1
   mov SUM1, ax
main ENDP
END main (2 marks)