KENYA METHODIST UNIVERSITY END OF TRIMESTER ONE EXAMINATION, APRIL 2009

FACULTY	:	ARTS AND SCIENCES.
DEPARTMENT	:	COMPUTE.R INFORMATION SYSTEMS.
COURSE CODE	:	CISY 311
COURSE TITLE	:	MICRO-PROCESSOR PROGRAMMING.
TIME	:	2 HOURS

INSTRUCTIONS: Answer Question One and any other two questions

Question 1

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• A5h [2 marks]

b) The binary value for 510 is 11111110b (9 bits). An accumulator is only 8 bits wide. Explain how you would store this 9 bits number in an 8 bit accumulator [5 marks]			
c) There are 3 buses associated with the memory subsystem, namely data and address bus. Explain the functions of each	bus, control bus [3 marks]		
d) Name any SIX types of STATUS flags	[6 marks]		
 Question 4 a) Distinguish between SET and CLEARED as used in flags b) Calculate the following: 1010 XOR 1110 1001 AND 1000 	[4 marks]		
1110 OR 1001	[6 marks]		
c) (i)What is a directive	[2 marks]		
(ii)List 2 directives	[2 marks]		
d) Distinguish between Absolute call and Long call	[4 marks]		
e) Name 2 forms of the JMP instruction	[2 marks]		
 Question 5 a) What is a label? b) Give 5 examples of logical instructions c) Explain the following Data transfer techniques Moving 	[1 marks] [5 marks]		
 Exchanging Exchanging digit Swapping d) Give 2 examples of: General registers Segment registers Pointer register 	[8 marks] [6 marks]		
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