UNIVERSITY OF DAR ES SALAAM

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

IS 136: TEST ONE

Time: 50 Mins

Instructions:

Attempt all questions. This test carries a total of 15 marks.

Question One:

Briefly explain the difference between the following terminologies as applied to C programming, provide example to support your explanation

- a) Variable vs. Constant
- b) Relational operators vs. Logical operators
- c) Counter controlled vs. Event controlled loops

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i) Identify errors in the following C code segments.

NOTE: There may be more than one error for each segment.

printf("Docer an inceper number"); scent("is",i); b) car (:
for (i~100, 1 <10, 1--)
printf("ef",1):

ii) Establish output of the following C code segments.

a)
int 1 = 5,3 = -4,k = 7.

Int a = +11 = 3+1 = --k;

printf("to 4d to 10",1 5,k,n):

6+6

4 (6 --4 + 6)

Question Three:

Write a C program which accepts an odd intager number between 500 and 1000 from user and prints factorial of the provided number. Your program should print "Invalid Number" if user enters non-odd or out of range number.

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