

UNIVERSITY OF DAR ES SALAAM
SCHOOL OF INFORMATICS AND COMMUNICATION TECHNOLOGY
COMPUTER SCIENCE UNIT
IS 136: C PROGRAMMING – TEST I (45min)

19th May, 2011

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A. Match the items with the right options provided in the table below (5 Points)

1. Items	Options
2. Arrays H	A. The beginning, the end, increment/decrement
3. Structures M	B. Very important for the STDIO.H file
4. Dereferencing	C. Different data types – all share memory space – after declaration
5. Compilation G	D. Linking a file needed by the main function
6. Unions C	E. Taking back the reference from a variable
7. Loop A	F. Different data types – Each given memory space – after definition
8. Include	G. source code independent of machines – Bytecode machine specific
9. do ... while O	H. Elements in adjacent memory cells
10. Iteration M	I. Accessing data using its memory address
	J. Data of different data types in a chain of memory storage
	K. Bytecode independent of machines – source code machine specific
	L. Different data types – all share one memory space – after definition
	M. One cycle of execution of a loop
	N. Different data types – Each given memory space – after declaration
	O. At least one execution before checking

B. Identify the Syntax Errors in the following Program, with reference to Line Numbers (5 Points)

```

1. #include <stdio.h>
2. int power(int base, int ind)
3. {
4.     int i, result = 1;
5.     for(i=1; i<=ind; i++){
6.         result = result*base;
7.         return result;
8.     }
9. }
10. main(){
11.     int pow;
12.     printf(" ENTER THE NUMBER ");
13.     scanf("%d",&base);
14.     printf(" ENTER THE POWER ");
15.     scanf("%d",pow);
16.     printf(" %f POWER %f == %f",num,pow,power(pow));
17. }

```

C. Provide the Output for Each of the Code Fragments Below (5 Points)

- `printf("%c %d %f %s %d\n", '1', 2, 3.14, "eight", 9);`
- `int a,b; a=7; b=11; a>b?printf("\t YOU CANT BE SERIOUS"):printf("\t GOT YOU");`