Total No. of printed pages = 8

19/5th Sem/UCSE509

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CENTRAL

2021

INTRODUCTION TO PROGRAMMING

Full Marks - 100

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

- 1. Multiple choice questions : 1×20=20
 - (i) Which of the following is not a valid variable in C ?
 - (a) var123 (b) CIT
 - (c) 123_student (d) None of these
 - (ii) How many keywords are there in C programming ?
 - (a) 30 (b) 31
 - (c) 32 (d) None of these

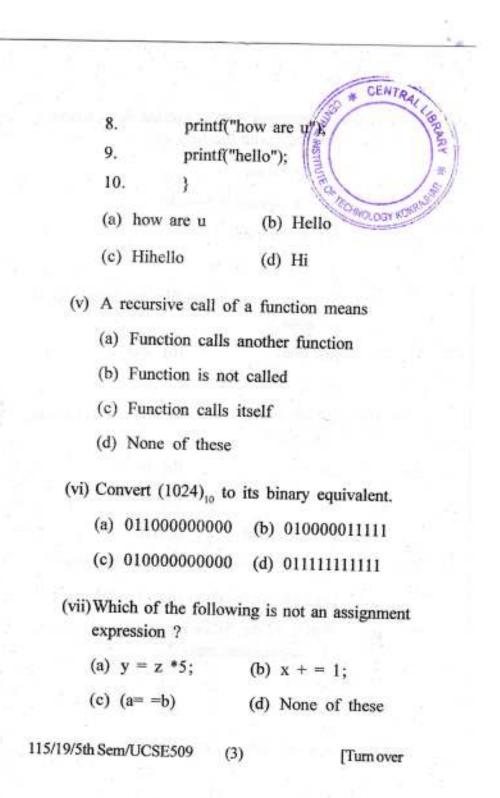
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(iii) What is the output of the following C program ? #include <stdio.h> 1. int main() 2. 3. ł int x = 2, y = 3; 4. x *= y; 5. printf("%d\n", x); 6. 7. return 0; 8. (b) 5 (a) 2 (d) None of these (c) 6

(iv) What will be the output of the following C code ?

1.	#include <stdio.h></stdio.h>
2.	void main()
3.	1
4.	int $x = 0$;
5.	if (x == 0)
6.	printf("hi");
7.	else

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- (viii) C programs are converted into machine language with the help of
 - (a) An Editor
 - (b) An Operating System
 - (c) A Compiler
 - (d) None of these
- (ix) What is the extension files by default for C program ?
 - (a) .doc (b) .exe
 - (c) .c (d) .ppt
- (x) Which of the following is not a relational operator ?

(a) <=	(b) !=		
(c) =	(d) = =		

- (xi) i++ is called _____ operator.
 - (a) Post decrement (b) Pre increment
 - (c) Post increment (d) Pre decrement
- (xii) Which of the following is not an example of Looping statement ?
 - (a) For (b) Do while
 - (c) Switch (d) While

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- (xiii) Which is syntax of for loop ?
 - (a) for (increment; expression; condition)
 - (b) for (condition; expression; statement)
 - (c) for (intialization; condition; increment/ decrement)
 - (d) None of these
- (xiv) ASCII value of 'A' is :

(a) 68	(b)	97
(c) 65	(d)	100

(xv) Find out the output for the following program

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main() { do printf("] am

printf("I am in loop");
while(4<3);</pre>

(a) 4<3

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(b) Compilation erro

- (c) I am in loop
- (d) None of these

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(xvi) Full form of ROM

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(a) Random Only Memory

(b) Reader One Memory

(c) Read Only Memory

(d) None of these

(xvii) The structure combines variables of ______ data type.

(a) Integer (b) Similar

(c) Dissimilar (d) None of these

(xviii)How many of bytes in memory required for single character in computer?

(a) 8 bytes	(b) 2 bytes
(c) 1 bytes	(d) 16 bytes

(xix) If 'a' is an interger variable, then a = 5/2; will return a value

(a) 2.5	(b) 3
(c) 2	(d) 0

(xx) By default a function returns a value of type

(a) Float	(b) Int
(c) Void	(d) None of these.

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2.	(i)	What	is the	difference	between	while	and	do
		while	loop	?				5

- (ii) What is the difference between Array and Structure ? 5
- (iii) What is the difference between function call by value and call by reference ? Explain with suitable example. 5+5=10
- (i) Write an algorithm to check whether a number is odd or even. Also write the C program for that algorithm. 5+5=10
 - (ii) Write a C program to check whether an alphabet is vowel or consonant using switch case. 10
- (i) What is a pointer in C? Explain how to initialize a pointer with an example. 10
 - (ii) Write a program in C to swap the values of two numbers using functions call by reference concept. 10
- (i) Draw the block diagram of a digital computer and explain each component in brief. 10
 - (ii) Explain the different types of loops in C with syntax. 10

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- 6. (i) Discuss various types of operators used in C. 10
 - (ii) Write a program to take 5 integer values from the user and store them in an array. 10

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- 7. Write short note on any four : 4×5=20 ENTRAL LIBRAR
 - (i) RAM and ROM
 - (ii) ARRAY
 - (iii) STRUCTURE
 - (iv) FUNCTION
 - (v) BREAK and CONTINUE.

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