

HDF-003-003102

Seat No.

B. C. A. (Sem. I) (CBCS) Examination

November / December - 2017

CS - 02: Problem Solving Methodologies & Programming in C

(Old Course)

Faculty Code: 003 Subject Code: 003102

Time : $2\frac{1}{2}$ Hours]

[Total Marks: 70

1 Answer the following:

- **20**
- (1) Which header file should be included to use gets()?
- (2) What will be the output of the program?

#include<stdio.h>

int main()

int a = 300, b, c; if(a > = 400) b = 300; c = 200; printf("%d, %d, %d\n", a, b, c);

}

(3) "&" is not logical operator (TRUE/FALSE) ?

return 0:

- (4) Give name of the different types of real data type in C?
- (5) "int length;"this declaration is correct (TRUE/FALSE)?
- (6) In mathematics and computer programming, "Multiplication, Addition, Division, Subtraction" is the correct order of mathematical operators (TRUE/FALSE)?

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(7) What will be the output of the program?
    #include<stdio.h>
    int main()
                    float a = 0.7;
                    if(0.7 > a)
                         printf("Hi \setminus n");
                    else
                         printf("Hello\n");
                    return 0;
    The use of break statement is to skip a part of a loop.
(8)
     (TRUE/FALSE) ?
    if ..... else is known as branching statement. (TRUE/FALSE)?
(9)
(10) Logical operator cannot be used with "DO" loop. (TRUE FALSE)?
(11) By default a real number is treated as _
        _____ special symbol allowed in a variable name.
(13) In C, if you pass an array as an argument to a function,
     what actually gets passed?
(14) How many times "INDIA" is get printed?
    #include<stdio.h>
    int main()
         int x;
         for (x = -1; x \le 10; x ++)
               if(x < 5)
                    continue;
               else
                    break:
               printf("INDIA");
               return 0;
(15) What will be output if you will compile and execute
    the following c code?
    #include <stdio.h>
    #include <string.h>
    int main(){
    int i=0;
    for(;i<=2;)
    printf(" %d",++i);
    return 0:
```

- (16) A function cannot be defined inside another function. (TRUE/FALSE) ? (17) Functions cannot return more than one value at a time. (TRUE/FALSE) ? (18) If the two strings are identical, then strcmp() function returns. (19) What will be the output of the program? int main() $char str[] = "Saurashtra \0 Idnia \0";$ printf ("%s\n", str); return 0; (20) There are mainly _____ part of any function. (A) Attempt the following: (Any **Three**) 6 Write a program to accept a string from user and display it in upper case. (2)What is flowchart? List out all the symbol of flowchart. Explain: typdef (3) (4) Explain scanf (function with available all the format specifier. List out relation operators with their meaning. (5)(6) List out any four backslash character constant with their meaning. Attempt the following: (Any Three) 9 (B) Write an algorithm to find out factorial of a given number. (2) Explain goto statement with an example. (3)Explain nested loop with an example. Explain any two string handling function. (4) Explain if else statement with an example. (5)Distinguish: Structure and Union (6)Attempt the following: (Any **Two**) 10 (1) List various categories of UDF. Explain any one with example.
- (3) Explain array of structure with example.

2

What is recursion? Explain with suitable example.

		(4)	Write a C program to check entered string is	
		(5)	palindrome or not. Write a program to print reverse of given number.	
9	(A)	A		0
3	(A)		empt the following: (Any Three)	6
		(1)	Explain ternary operator with an example.	
		(2)	· ·	
		(3)		
		(4)	What is an identifier? Give rules for declaring identifier.	
		(5)	What is token? List out all the tokens available is C.	
		(6)		
	(B)	B) Attempt the following: (Any Three)		9
		(1)	Explain break and continue statement with an	
			example.	
		(2)	Draw a flowchart to check whether the number	
			is odd or even.	
		(3)	Distinguish: Entry controlled loop and Exit	
			controlled loop	
		(4)	Explain: strcmp() Function.	
		(5)	Explain symbolic constant with example.	
		(6)	What is an operator? Explain any one with	
			example.	
	(C)	Atte	empt the following: (Any Two)	10
	(0)		Write a program to check entered number is prime	
		(±)	or not.	
		(2)	Explain various data types in C language.	
		(3)	Explain basic structure of C program.	
		(4)	List the looping structure available in C language.	
			Explain any one with syntax and example.	
		(5)	Write a program to print following triangle:	
			ABCDE	
			A B C D	
			A B C	
			A B	

A