

HDF-003-004102

Seat No.

B. Sc. (I.T.) (Sem. I) (CBCS) Examination

November / December - 2017

CS-02 : Problem Solving Methodology & Programming in C
(Old Course)

Faculty Code: 003

Subject Code: 004102

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

[Total Marks: 70

1 Attempt the following:

- (1) What is Flow chart?
- (2) Write down use of Strupr().
- (3) Give definition of Constant.
- (4) Give Syntax of for loop.
- (5) Which Header file is used to support different string functions?
- (6) What will be the output of following code.

- (7) Give Defination of Algorithm.
- (8) Explain use of Goto Statement.
- (9) Give short cut key to run the C Program.
- (10) Explain use of Getch().
- (11) Write down statements to declare string array.
- (12) What is the use of textcolor()?
- (13) To clear contents of the output screen which 'function is used in C?

- (14) What is Dry Run?
- (15) Write down statement to declare Multi Dimensional Array?
- (16) Explain fflush().
- (17) What is nested If...Else?
- (18) What is keyword ?How many keywords available in C?
- (19) What is the output of following code.

```
void main( )
{    int a=5, b;
    b=a++ + a++ + a++;
    printf("%d",b);
}
```

(20) Explain use of gotoxy().

2 (a) Attempt any three:

6

- (1) Write down Structure of C Program.
- (2) Explain Conditional Operators with Example.
- (3) Briefly Explain different Character Sets.
- (4) Explain how to pass array elements to the Function.
- (5) Explain printf() with example.
- (6) Write down Algorithm to check if given number is positive or negative.
- (b) Attempt any three:

- (1) Explain gets() and puts() with Example.
- (2) What is. Variable? Explain Scope of Variables.
- (3) Briefly Explain Break and Continue Statements with proper Example.
- (4) Explain any three operators in C.
- (5) Give difference between Structure and Union.
- (6) Explain Switch Case with suitable example.

(c)	Attempt any two :		10
	(1)	What is Loop? Explain While and DoWhile Loop with example.	
	(2)	Write down lrogram code to get a number from user and check if given number is Armstrong or not.	
	(3)	Explain if-elseif with suitable example	
	(4)	Explain UDF with different types.	
	(5)	Explain Array with, types.	
(a)	Atte	empt any three:	6
	(1)	Explain Typedef.	
	(2)	Briefly Explain union.	
	(3)	Explain Nesting of Loops in Brief.	
	(4)	Explain different symbols of flow chart.	
	(5)	Explain isupper() and islower().	
	(6)	Briefly Explain How to access Members of Structure by short example.	
(b)	Attempt any three:		9
	(1)	Write down program code for printing Fibonacci series on the screen.	
	(2)	Explain Different Memory Allocation Functions.	
	(3)	Write, down program code to perform following pyamid mid. 5 4 5 3 4 5	

- (4) Explain Array of Structure with suitable example.
- (5) Explain Hierarchy of Operations.

1 2 3 4 5

(6) Briefly Explain Symbolic constants.

(c) Attempt any two:

- (1) Write down Program code to count vowels and white spaces from given string.
- (2) Explain C Pre-Processor in detail.
- (3) Explain Storage Class in detail.
- (4) Explain any four Maths functions in C Language.
- (5) Explain <stdio.h> and <conio.h> with proper example.