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PBK-003-003102 Seat No. _____

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

November / December - 2018

CS - 02 : Problem Solving Methodologie And Programming In C

(Old Course)

Faculty Code : 003

Subject Code : 003102

Time : **3** Hours] [Total Marks : **100**

1 Answer the following : (any **four**) **20**

(1) Explain Various Data Types, in C Language.

(2) Explain Structure of C Language.

(3) Explain Conditional Ternary Operator with example.

(4) Explain various types of storage classes.

(5) Explain loops with example.

2 Answer the following : (any **four**) **20**

(1) What is Type Casting? Explain it with example.

(2) Explain the following:

(1) Constants

(2) Variables

(3) Keywords

(3) Explain switch case with example.

(4) Explain Dry Run and its use in detail.

(5) What is Operators? Explain Types of operators.

3 Answer the following : (any **four**) **20**

(1) What is flow chart? Draw a flow chart to find the fractional of a given number.

(2) What is Array? Explain Two-Dimensional array with example.

(3) Write the syntax and explain the following functions: printf( ),cprintf( ),fmod( ), strrev( ), isprint( )

(4) Explain Array of structure with example.

(5) What is User Defined Functions? List out different types of UDF. Explain any one with suitable example.

4 Answer the following : (any **four**) **20**

(1) Differentiate:

(1) Structure and Union

(2) Global Variable and Local Variable

(2) Explain C Preprocessors in detail.

(3) Explain Array within structure with example.

(4) Explain break and continue statements with suitable examples.

(5) Explain strcpy( ) and strcat( ) functions with examples

5 Answer the following : (any **four**) **20**

(1) Explain Nested if-else with suitable example,

(2) Explain any five math functions with examples.

(3) Differentiate:

(1) getch( ) and getchar( )

(2) gets( ) and puts( )

(4) What is Structure? Explain how to define and Accessing structure elements with suitable example.

(5) Write a program to print following output on the screen :

1

2 3

4 5 6

7 8 9 10