



PBK-003-003108

Seat No. _____

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

November / December - 2018

**CS - 02 : Problem Solving Methodologies And
Programming In C**

(Old Course)

Faculty Code : 003

Subject Code : 003108

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

[Total Marks : 70

1 Answer the following : **20**

- (1) Which loop is exit controlled loop?
- (2) Give syntax of goto statement.
- (3) List out jumping statement.
- (4) Give syntax of for loop.
- (5) C Language has been developed by _____.
- (6) What is Dry-run ?
- (7) All preprocessor directives start with _____ symbol.
- (8) What is type casting ?
- (9) What is use of free() ?
- (10) What is Recursion ?
- (11) Which value return by strcmp() when both string is same ?
- (12) List out Memory Allocation Functions.
- (13) What is Array ?
- (14) Give syntax for declaring a Union.
- (15) Array index starting from _____
- (16) Which operator is used to access a member element of structure ?

- (17) What is pointer variable ?
- (18) What is use of putw() function ?
- (19) Give syntax of fopen() function.
- (20) argv stands for _____.

2 (a) Attempt Any Three : 6

- (1) Explain c-character set.
- (2) Explain difftime() function.
- (3) Explain Symbols of Flowchart.
- (4) Explain conditional ternary operator.
- (5) Give difference between : break & continue statement.
- (6) Explain History of C language.

(b) Attempt Any Three : 9

- (1) Explain Variable naming rules.
- (2) Explain Structure of C program
- (3) Explain Nesting of loops with example.
- (4) Explain switch case statement with example.
- (5) Explain fseek(), rewind(), fflush().
- (6) Give difference between traditional and modern c.

(c) Attempt Any Two : 10

- (1) Explain All Operators in C Language.
- (2) Explain Data types in C.
- (3) Explain Pointers within Structure with suitable example.
- (4) Explain else if ladder statement with example.
- (5) Explain looping control statement with example.

- 3** (a) Attempt Any **Three** : **6**
- (1) Give difference between call by value and call by reference.
 - (2) Differentiate : Structure v/s Union.
 - (3) List out file opening mode.
 - (4) Explain Pointer to Pointer.
 - (5) Give Differentiate between : Array and Structure.
 - (6) Explain malloc() & calloc().
- (b) Attempt Any **Three** : **9**
- (1) Explain strcpy() and strcat() functions with example.
 - (2) Explain String arrays with example.
 - (3) Explain Pointer within Array.
 - (4) Explain gets() and puts() functions with example.
 - (5) Explain rewind() function with suitable example.
 - (6) Explain Nested structures.
- (c) Attempt Any **Two** : **10**
- (1) Explain different Storage classes in C
 - (2) Explain Single-Dimensional Array in detail with example.
 - (3) What is user defined function? Explain Type of UDF.
 - (4) Write a program to copy the contents of one file into another.
 - (5) Explain Command line arguments with suitable example.