



**PBU-003-1021002** Seat No. \_\_\_\_\_

**P. G. D. C. A. (Sem. I) (CBCS) Examination**

**November / December - 2018**

**CS - 02 : Problem Solving Methodologies and  
Programming in C**

**Faculty Code : 003**

**Subject Code : 1021002**

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

[Total Marks : 70

- 1 (a) Attempt the following : 4
- (1) C language has been developed by \_\_\_\_\_.
  - (2) What is Dry-run ?
  - (3) All preprocessor directives start with \_\_\_\_\_ symbol.
  - (4) What is type casting ?
- (b) Attempt any **one** out of two. 2
- (1) Explain c-character set.
  - (2) Explain Symbols of Flowchart.
- (c) Attempt any **one** out of two : 3
- (1) Explain variable naming rules.
  - (2) Explain structure of C program.
- (d) Attempt any **one** out of two : 5
- (1) Explain Operators in detail.
  - (2) Explain Data types in C.
- 2 (a) Attempt the following : 4
- (1) Which loop is exit controlled loop ?
  - (2) Give syntax of goto statement.
  - (3) List out jumping statement.
  - (4) Give syntax of for loop.

- (b) Attempt any **one** out of two. **2**
- (1) Explain conditional ternary operator.
  - (2) Give difference between break and continue statement.
- (c) Attempt any **one** out of two. **3**
- (1) Explain Nesting of loops with example.
  - (2) Explain switch case statement with example.
- (d) Attempt any **one** out of two. **5**
- (1) Explain looping control statement with example.
  - (2) Explain else if ladder statement with example.
- 3** (a) Attempt the following : **4**
- (1) List out I/O formatting functions.
  - (2) Give syntax of strcmp ().
  - (3) What is use of free () ?
  - (4) By using \_\_\_\_\_ function we can clear the data from console.
- (b) Attempt any **one** out of two : **2**
- (1) Give difference between call by value and call by reference.
  - (2) Explain pow () function.
- (c) Attempt any **one** out of two : **3**
- (1) List out string function and explain one in detail.
  - (2) Explain storage class with example.
- (d) Attempt any **one** out of two : **5**
- (1) What is Recursion ? Explain with suitable example.
  - (2) List out types of UDF and explain any two with example.

- 4 (a) Attempt following : 4
- (1) \_\_\_\_\_ Keyword is used to define structure.
  - (2) What is Array ?
  - (3) \_\_\_\_\_ is a variable, also known as locator or indicator that points to an address of a value.
  - (4) A union can be nested in a structure (True/False).
- (b) Attempt any **one** out of two : 2
- (1) What is use of Arrays in Programming ?
  - (2) Explain malloc () and calloc ().
- (c) Attempt any **one** out of two : 3
- (1) Give difference between Structure and Union.
  - (2) Explain string array with example.
- (d) Attempt any **one** out of two : 5
- (1) Explain types of arrays in detail with example.
  - (2) Explain Nested structure with example.
- 5 (a) Attempt followings : 4
- (1) Give syntax of rename ().
  - (2) What is use of getw () function ?
  - (3) Which function is used to find the end of a file ?
  - (4) argc stands for \_\_\_\_\_.
- (b) Attempt any **one** out of two : 2
- (1) Explain pointer to pointer.
  - (2) List out file opening mode.
- (c) Attempt any **one** out of two : 3
- (1) Explain Pointer within array.
  - (2) Explain fseek (), rewind (), fflush ().
- (d) Attempt any **one** out of two : 5
- (1) Explain command line arguments with suitable example.
  - (2) Explain Pointer to Array with example.