



HDF-003-1031002

Seat No. _____

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

November / December – 2017

**CS-02 : Problem Solving Methodologies &
Programming in "C"**

(New Course)

Faculty Code : 003

Subject Code : 1031002

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

[Total Marks : 70

- 1 (a) Attempt the following : 4
- (1) What is flowchart?
 - (2) What is type casting?
 - (3) How many bits occupies by character data type.
 - (4) List out bitwise operator.
- (b) Answer any one : 2
- (1) Explain the typedef data type.
 - (2) Explain c-character set.
- (c) Answer any one : 3
- (1) Draw a flow chart to find out summation of even number between 1 to 10.
 - (2) List out variable naming rules.
- (d) Answer any one : 5
- (1) Explain structure of c language with example.
 - (2) List out c tokens and explain operators in detail.
- 2 (a) Attempt the following : 4
- (1) Which value is return by conditional operator when condition is false.
 - (2) Which type of value can be specified in switch expression?
 - (3) List out iterative control statements.
 - (4) Continue statement can be placed only _____ statements.

- (b) Answer any one : 2
- (1) Explain break statements.
 - (2) Explain ternary operators.
- (c) Answer any one : 3
- (1) Explain if-else statements.
 - (2) Describe for loop.
- (d) Answer any one : 5
- (1) Explain switch statements with example.
 - (2) Explain nested looping statements.
- 3 (a) Attempt the following : 4
- (1) Which value return by strcmp() when both string is same.
 - (2) What is recursion?
 - (3) Which is the default value of static storage class!
 - (4) List out I/O formatting function.
- (b) Answer any one : 2
- (1) Explain difftime() function.
 - (2) Explain pow() function.
- (c) Answer any one : 3
- (1) Describe the call by references with example.
 - (2) List out string function and explain any one in detail.
- (d) Answer any one : 5
- (1) List out types of udf and explain any two in detail.
 - (2) Explain external and register storage class with example.

- 4 (a) Attempt the following : 4
- (1) What is array?
 - (2) Which operator is used to access a member element of structure?
 - (3) How many ways to initialization an array.
 - (4) The declaration `int p[2]={ 1,2,3};` is illegal. (true/false).
- (b) Answer any one : 2
- (1) Write difference between structure and union.
 - (2) What are the slack bytes.
- (c) Answer any one : 3
- (1) Explain string array with example.
 - (2) Explain nested structure.
- (d) Answer any one : 5
- (1) Explain Two-dimensional array with example.
 - (2) Define a structure called student that describe the following information :
Rollno, name and total marks obtained. Develop a program to read data for 10 students In a class and list them rank-wise.
- 5 (a) Attempt the following : 4
- (1) A pointer is a _____ data type in c.
 - (2) FILE is a _____ data type.
 - (3) How many argument pass in `fopen()`
 - (4) `argc` used for _____.
- (b) Answer any one : 2
- (1) List out file opening mode.
 - (2) Explain pointer to pointer.

5 (c) Answer any one : 3

- (1) Explain rewind() function.
- (2) Explain pointer within array.

(d) Answer any one : 5

- (1) Explain command line arguments with example.
- (2) Write a program to copy the contents of one file into another.