



JBD-P-1010

Seat No. _____

M. C. A. (Sem. I) (CBCS) (W.E.F. 2016) Examination

December - 2019

Introduction to Programming in C : Paper - 1010

(New Course)

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

[Total Marks : 70

1 Answer the following questions :

(A) Attempt the following objective questions : 4

- (1) Write a C statement to print float value with appropriate example.
- (2) Which function in C is used to take integer value from user? Explain with example.
- (3) What is expression?
- (4) What is variable?

(B) Answer in brief : (Any One) 2

- (1) Write any two advantages/features of C programming language.
- (2) Explain functions used to take input and output from user with example.

(C) Answer in detail : (Any One) 3

- (1) Explain built-in data types in C
- (2) Explain if.. else if. ...else with appropriate example.

(D) Write a note on the following : (Any One) 5

- (1) Write a C program to check whether given no. is odd or even and print the appropriate message.
- (2) Explain do...while loop with appropriate example.

- 2** Answer the following questions :
- (A) Attempt the following objective questions : **4**
- (1) Which header file should be included to use string built-in functions?
 - (2) How to take string input?
 - (3) How to print string?
 - (4) What is array?
- (B) Answer in brief : (Any **One**) **2**
- (1) What is multidimensional array?
 - (2) Which built-in function is used to count length of string? Explain with example.
- (C) Answer in detail : (Any **One**) **3**
- (1) What is one dimensional array? How to create it?
 - (2) What is the use of strcat()? Explain with example.
- (D) Write a note on following : (Any **One**) **5**
- (1) Write a C program to create two 2-dimensional arrays and print addition of both arrays.
 - (2) Explain built-in function used to reverse and compare strings with appropriate example :
- 3** Answer the following questions :
- (A) Attempt the following objective questions : **4**
- (1) Which keyword is used to create structure?
 - (2) Which keyword is used to create union?
 - (3) What is union?
 - (4) What is structure?
- (B) Answer in brief : (Any **One**) **2**
- (1) What is the use of structure?
 - (2) When union is useful?

- (C) Answer in detail : (Any One) 3
- (1) What is nested structure? Explain with example.
 - (2) Differentiate between structure and union.
- (D) Write a note on the following : (Any One) 5
- (1) Explain array of structure with example.
 - (2) Write a C program to create structure for storing student information such as rno, nm, marks of three subjects. Obtain data from user, store in structure and print the same on the screen.
- 4 Answer the following questions :
- (A) Attempt the following objective questions : 4
- (1) What is UDF?
 - (2) What is pointer?
 - (3) What is call by reference?
 - (4) How pointer to pointer is declared?
- (B) Answer in brief : (Any One) 2
- (1) List storage classes in C.
 - (2) What is pointer arithmetic?
- (C) Answer in detail : (Any One) 3
- (1) What is recursion? Explain with example.
 - (2) Explain scope and lifetime of variable.
- (D) Write a note on following : (Any One) 5
- (1) Explain pointer to array with example.
 - (2) Write a C program to create UDF that will calculate factorial of given no. (e.g. if input is : 5 then output will be: 120 i.e. $5*4*3*2*1$)

- 5** Answer the following questions :
- (A) Attempt the following objective questions : **4**
- (1) When `fopen()` is not able to open file, what does it return?
 - (2) What is the use of `fwrite()`?
 - (3) What is the use of `fgets()`?
 - (4) What are the arguments of `fopen()`?
- (B) Answer in brief : (Any **One**) **2**
- (1) Write a C program to write "Hello world" greeting message in a file.
 - (2) List various modes to open a file.
- (C) Answer in detail : (Any **One**) **3**
- (1) Explain `fprintf()` and `fscanf()` with example.
 - (2) Explain `fgetc()` and `fputc()` with example.
- (D) Write a note on following : (Any **One**) **5**
- (1) Write a C program to read a text file and display no. of lines, words and characters in a file.
 - (2) What is command line argument? Explain with example.
-