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Sardar Patel University  
External Examination  
M.Sc. Statistics/ M.Sc. Applied Statistics Semester I  
PS01ESTA21/PS01EAST21: Statistical Computing through C++  
November 01, 2018, Thursday  
Time: 10:00 a.m. to 01:00 p.m.

Marks:70.

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Q1. Multiple Choice Questions.

- i. The memory size requires to store character constant is  
(a) 2-bytes (v) 4 bytes (c) 1 byte (d) 8 bytes
- ii. \_\_\_\_ loop is used when we are certain about the test condition.  
(a) nested if (b) for (c) do while (d) while
- iii. \_\_\_\_ statement is used to transfer the control of the execution from one part of the programme to another part of programme.  
(a) break (b) return (c) continue (d) goto
- iv. \_\_\_\_ is an alternate to nested if else structure  
(a)do while loop (b) ternary operator (c) switch case break statement (d) multifunctions
- v. \_\_\_\_ operator is useful to retrieve the content of location pointed to by pointer  
(a) \* (b) & (c) && (d) ++
- vi. \_\_\_\_ is called again and again directly or indirectly.  
(a) multifunction (b) recursive function (c) Type III (d) call by reference
- vii. \_\_\_\_ is a programme in C++ that modifies the C++ source programme according to directive supplied in the programme.  
(a)header file (b)simple macro (c)pre-processors (d) macro with parameters
- viii. \_\_\_\_ is a collection of identical data objects which are stored in consecutive memory locations under a common heading or variable.  
(a) function (b) array (c) pointer (d) static variable

Q2. Short Answer Type Question. (Any Seven)

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- i. Give the precedence rule of execution of the operators used in C++.
- ii. Write brief on for loop.
- iii. Define pointer operator and address operator.
- iv. Brief the usage of call by reference in pointer.
- v. Write brief on if else statement.
- vi. Define macro with parameters and give an example of it.
- vii. Give the general syntax of multifunction.
- viii. Give the syntax of arrays and function.

①

[P.T.O.]

- ix. Distinguish between conditional goto statement and unconditional goto statement. 06
- Q3(a) Discuss the operators which are helpful to decorate the programme output. 06
- (b) Discuss various constant used in C++. 06
- [OR]
- (b) List various operators used in C++. Discuss any two. 06
- Q4(a) Distinguish between while loop and do while loop. Explain do while loop using programme. 06
- (b) Explain switch case and switch case break statement. 06
- [OR]
- (b) Write a programme to select sample of size  $n$  from given population size  $N$  without replacement. 06
- Q5(a) Discuss one dimensional and multidimensional array. 06
- (b) Explain three types of functions discuss in C++. 06
- [OR]
- (b) Write a programme to evaluate addition and multiplication of two  $n \times n$  matrices. 06
- Q6(a) Write note on pointer assignment and pointer arithmetic. 06
- (b) Discuss storage classifiers in detail. 06
- [OR]
- (b) Discuss recursive function using programme. 06

