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Sardar Patel University
External Examination
M.Sc. Statistics Semester I
PS01ESTA01: Statistical Computing through C++
December 11, 2012, Tuesday
Time: 10:30 p.m. to 01:30 p.m.

Marks: 70

Q1. Multiple Choice Questions

08

1. Result of 39/7 in C++ is _____.
(a) 5.57 (b) 5 (c) 4 (d) 0
2. _____ operator has highest precedence than _____ operator and lowest precedence than _____ operator.
(a) ||, !, && (b) !, &&, || (c) !, ||, && (d) &&, ||, !
3. _____ manipulator is use to convert the base of one numeric value into another base.
(a) Setfill () (b) setbase() (c) endl (d) setprecision ()
4. _____ operator is use to get the address of the other variable in an indirect manner.
(a) && (b) * (c) & (d) \$
5. _____ statement is a special multiway decision maker that tests whether an expression matches one of the numbers of constant value.
(a) If- else (b) do while (c) switch (d) all of them
6. _____ loop is use for introducing time delay in a programme.
(a) While (b) for (c) both (a) and (b) (d) nested if loop
7. Formal arguments are parameters present in the function definition which may also be called _____.
(a) dummy arguments (b) parametric variables (c) actual arguments (d) both (a) and (b)
8. _____ variable defined within a function and they have the scope rules of the arithmetic variables but the contents of the variables will retain throughout the programme.
(a) Register (b) Global (c) Extern (d) Static

Q2. Short Answer Questions (Any Seven) 14

1. Write a note on return statement.
2. What do you mean by nested if loop. Give its syntax and an example of it.
3. Distinguish between one dimensional array and multidimensional array.
4. Give the structure of user defined function in C++. Also, give an example of it.
5. Define address operator and pointer operator and give their example of each.
6. Distinguish between conditional go to statement and unconditional go to statement.
7. Write a macro in a C++ to find largest of any two numbers.
8. Distinguish between actual arguments and formal arguments.
9. Give an example of multifunction programme segment in C++.
10. What do you mean by identifiers? How they differ from keywords.

Q3. Write C++ programme. (Any Two) 12

1. To find number of ways 'r' items arranged together from 'n' items.
2. To find the mean, median of group data
3. To demonstrate how a pointer to a function is declared to present simple arithmetic operations such as addition, subtraction, multiplication and division of two numbers

Q4 (a) Discuss for loop. 06

(b) Explain comparison and logical operators. 06

[OR]

(b) Explain various manipulators used in C++. 06

Q5 (a) Explain conditional expressions in details. 06

(b) Explain types of function in C++. 06

[OR]

(b) Explain numeric arrays in detail. 06

Q6 (a) Write the advantages of pointer declaration and explain point arithmetic in detail. 06

(b) Explain call by value and call by reference in context of pointer and function. 06

[OR]

(b) Explain preprocessors in detail. 06

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