2018

CBCS

3rd Semester

STATISTICS

PAPER—C7T

(Honours)

Full Marks : 60

Time : 3 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Statistical Computing using C/C++ Programming

1. Answer any *ten* questions :   10×2

   (a) What do you mean by C key word ? Give example.

(b) How many data type does C language consist ?

(c) What do you mean by type conversion ?

(d) What is an abstract class ?

(e) What is 'goto' statement ?

(f) What are string ?

(g) What do you mean by storage class ?

(h) What is conditional operator ?

(i) What is an operator precedence ?

(j) Evaluate $^{17}/_3$, 17% 3, $^1/_2$.

(k) What is pointer ?

(l) What is object ?

(m) What is class ?

(n) Write the syntax of malloc function.

(o) What is preprocessor ?

2. Answer any *four* questions :   4×5

   (a) Explain break, continue and goto statement with example and their use.

   (b) Define array. Explain the basic concept of array.

   (c) Define structure and explain how it differs from other data types.

   (d) What is macro ? Explain with example.

   (e) What are loop control structures ? Explain do-while loop with example.

   (f) Write a program to find a number is even or odd.

3. Answer any *two* questions :   2×10

   (a) Write a program to print pyramid of star using for loop

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        *
      *   *
    *   *   *
  *   *   *   *
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(b) Write a program to print series of numbers from 1 to 100 those are divisible by 5 and 7 both.

(c) Write a program to obtain tranpose of matrix using pointer.

(d) Consider $y = e^{2x} \log_e \left(1 + \dfrac{|k|}{\sqrt{1 + x^2 + x^5}} \right)$

for x = 1.5, 1.55, 1.6 10

Write a program for evaluation of y for these values.

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