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**5 SEM TDC STSH (CBCS) C 12**

**2022**

( Nov/Dec )

**STATISTICS**

( Core )

Paper : C-12

**Statistical Computing Using C Programming )**

Full Marks : 50

Pass Marks : 20

Time : 2 hours

*The figures in the margin indicate full marks  
for the questions*

1. Choose the correct answer from the following alternatives : 1×5=5

(a) What is an identifier in C language?

(i) Name of the function or variable

(ii) Name of a macros

(iii) Name of structure or union

(iv) All of the above

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- (b) Find a correct C keyword below
- (i) work
  - (ii) case
  - (iii) constant
  - (iv) permanent
- (c) What is the size of an int data type?
- (i) 4 bytes
  - (ii) 8 bytes
  - (iii) 2 bytes
  - (iv) 1 byte
- (d) Which of the following operators takes only integer operands?
- (i) +
  - (ii) \*
  - (iii) %
  - (iv) None of the above
- (e) In C programming language, which of the following type of operators have the highest precedence?
- (i) Relational operator
  - (ii) Equality operator
  - (iii) Logical operator
  - (iv) Arithmetic operator

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2. Answer the following questions in brief : 2×5=10

- (a) What is the difference between = and == ?
- (b) What is the difference between while and do-while?
- (c) Discuss user-defined functions in C with an example briefly.
- (d) What is meant by global variable?
- (e) What is the difference between C character and C string?

3. Answer any *two* of the following questions :

- (a) What is meant by recursion? Write three uses of a recursive function. 3+4=7
- (b) What are the major components of a function definition? Differentiate built-in function and user-defined function. 3+4=7
- (c) What is a pointer? Examine the difference between call by value and call by reference. 3+4=7

4. Compare the three-loop control structures used in C with examples. 5

5. What is the purpose of scanf() function? How is it used within a C program? Discuss with an example. 5

6. What is the purpose of a switch statement? In what way, does a switch statement differ from an if statement?  $2+3=5$

7. Write notes on (any two) :  $3 \times 2 = 6$

(a) Conditional statement

(b) Nested loop

(c) Cast

(d) Break statement

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