



11125

560

I Semester B.Sc. Examination December 2018

(CBCS New Scheme)

COMPUTER SCIENCE

Programming Concepts Using C

Time : 3 Hours

Max. Marks : 70

Instruction : Answer all Sections.

SECTION – A

I. Answer **any 10** questions. **Each** carries **2** marks. (2×10=20)

- 1) What is meant by keywords ? Give examples.
- 2) What is structured programming ?
- 3) Define algorithm and flowchart.
- 4) What are the uses of getch () and getche () functions ?
- 5) Write the difference between break and continue statements.
- 6) What is an array ? How do you declare and initialize a single dimensional array ?
- 7) What is function prototyping ? Write the syntax.
- 8) Differentiate between actual and formal arguments.
- 9) What is a pointer ? How do you initialize it ?
- 10) What are the uses of malloc () and calloc () functions ?
- 11) What is a Macro ? Mention the types.
- 12) What are the uses of ftell () and fseek () functions in C.

SECTION – B

II. Answer **any 5** questions. **Each** question carries **ten** marks. (10×5=50)

- 13) a) Write an algorithm and draw the flowchart to find the largest among 3 numbers. 5
- b) Define symbolic constant. Explain it with an example. 5
- 14) a) What is a ternary operator ? Write a program to illustrate it. 5
- b) Explain the switch case statement with an example. 5

P.T.O.



- 15) a) Write the differences between while and do..while statements. 4
 b) Explain call by value and call by reference with an example. 6
- 16) a) What is a recursive function ? Illustrate it with a program. 5
 b) Write a program to find the transpose of a matrix. 5
- 17) a) Explain the various library functions in C. 5
 b) Write a note on storage classes. 5
- 18) a) Differentiate between union and structure. 4
 b) Write a program to find the length of a string using pointers. 6
- 19) a) Explain the various string handling functions in C. 5
 b) Write a C program to sort numbers in alphabetical order. 5
- 20) a) Explain command line argument and write a program using it. 6
 b) Explain fread () and fwrite () functions with the syntax. 4

SECTION - B

(10x5=50)

- 1) Answer any five questions. Each question carries ten marks.
- 13) a) Write an algorithm and draw the flowchart to find the largest number among three numbers.
- b) Define a macro constant. Explain it with an example.
- 14) a) What is a ternary operator? Write a program to check if a number is odd or even.
- b) Explain the switch case statement with an example.

P.T.O.