B.Sc. DEGREE EXAMINATION, APRIL 2021 &

Supplementary / Improvement / Arrear Examinations

Software

Allied – C-PROGRAMMING

(CBCS – 2014 onwards)

Time : 3 Hours   Maximum : 75 Marks

Part A   (10 × 2 = 20)

Answer **all** questions.

1.   Define data type.

2.   Why is initialization important?

3.   What is an operator?

4.   Define Switch Statement.

5.   Differentiate string and characters.

6.   What is the difference between formal and actual parameters?

7.   What is static variable?

8.   What is the use of period operator?

9.   What is file handling?

10.   Write the general format of fseek( ) function.

Part B (5 × 5 = 25)

Answer **all** the questions, choosing either (a) or (b).

11. (a) Explain the special features of a C program.

Or

(b) List out the rules for naming a variable in C.

12. (a) How does pre increment and post increment work? Explain with an example program.

Or

(b) Differentiate entry-controlled loop and exit-controlled loop.

13. (a) Write a C program to find the sum of the given n integers using an array.

Or

(b) Explain the break and continue statement with an example.

14. (a) Explain about the pointer variables.

Or

(b) How does a structure differ from an array? Explain with an example.

15. (a) Write the differences between putchar( ) and putc( ).

Or

(b) Write a short note on macros.

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Part C   (3 × 10 = 30)

Answer any **three** questions.

16. Explain the different types of operators in C.

17. Write a C program using if else ladder to grade student according to following rules.

Marks	Grade
70 to 100	Distinction
60 to 69	I Class
50 to 59	II class
40 to 49	III Class
0 to 39	fail

18. Explain any five built-in functions in C with examples.

19. Write a program using pointers to read an array of integers and print its elements in reverse order.

20. How does a preprocessor works? Explain.

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