



FD-2656

B.Sc. (Part-I) Examination, 2022

COMPUTER SCIENCE

Paper - II

Programming in C Language

Time : Three Hours] [*Maximum Marks* : 50

Note : Answer any **two** parts from each question. All questions carry equal marks.

Unit-I

1. (a) Explain the logical operator with example.
 - (b) Explain the formatted I/O functions with example.
 - (c) Write short notes on the following :
 - (i) getch ()
 - (ii) putchar ()
 - (iii) getc ()
 - (iv) putc ()
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Unit-II

2. (a) What is the difference between while and do-while loop ? Explain with example.
- (b) Write a program to print the factorial of given number using recursive function.
- (c) Write short notes on the following :
- (i) Scope and lifetime of variable
 - (ii) Formal argument
 - (iii) Command line argument

Unit-III

3. (a) Write a program to calculate multiplication of two matrix.
- (b) What is structure ? How to create and initialize a structure variable ? Explain with suitable example.
- (c) Write short notes on the following :
- (i) Array of structure
 - (ii) Array within structure
 - (iii) Nested structure

Unit-IV

4. (a) Write a program to enter any 10 numbers in an array variable and calculate its sum using pointer.

(3)

- (b) Differentiate between malloc () and calloc () with suitable example.
- (c) Write short notes on the following :
 - (i) & and * operator
 - (ii) Void pointer
 - (iii) Pointer to pointer

Unit-V

5. (a) Write short notes on the following :
- (i) fread ()
 - (ii) fwrite ()
 - (iii) fscanf ()
 - (iv) fprintf ()
- (b) What is conditional compilation directive ? Explain with example.
- (c) Write short notes on the following :
- (i) #define
 - (ii) #include
 - (iii) fflush ()
 - (iv) perror ()
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