

AJ-1135
B.Sc (Part-I)
Term End Examination, 2021-22
COMPUTER SCIENCE (Paper – II)

Time : 3 hrs.]

[M.M. : 50

Note: Answer all questions. All questions carry equal marks.

Unit-1

1. (a) What is Operator? Explain increment and decrement operator with example.
(b) Explain the following function :
(i) `putc ()` (ii) `printf ()`

OR

- (a) What is Data type? Explain different data types in C.
(b) Write a C program to explain Arithmetic Operators.

Unit- 2

2. (a) What is Recursion? Explain the concept by writing suitable 'C' Program.
(b) What is looping ? Explain for loop with suitable example.

OR

- (a) Write difference between call by value and call by reference mechanism.
(b) Explain Switch statement with suitable example.

Unit - 3

3. (a) Write a C program to pass Array elements to a Function.
(b) What is Enum? How it is declared? Write a C program to explain the concept.

OR

- (a) What is String? Explain `strcat( )` and `strcmp( )` function.
(b) Write syntax to declare a structure. How structure elements are accessed? Explain with example.

Unit-4

4. (a) What is Pointer? Write its advantages.
(b) Write a brief note on Pointer Arithmetic.

OR

- (a) Explain `malloc` and `calloc` function with suitable 'C' program.
(b) What is pointer to pointer ? Write a 'C' program to explain the concept.

Unit-5

5. (a) Write a 'C' program to count character, spaces, tabs and newlines in a file.
(b) Explain any two conditional compilation directives.

OR

- (a) Explain the following function :
(i) `fseek ( )` (ii) `rewind ( )`
(b) Write a 'C' program to create Macros with Arguments.