

VCD-21/11/19

-FYIT- IP-SEMI-75Mks-21/2 Hrs.

- N. B.: (1) All questions are compulsory.
(2) Numbers to the right indicate marks.
(3) Draw neat labeled diagrams wherever necessary.

1. Attempt any three of the following:

15 M

- Write a note on program development cycle.
- Explain the concept of pseudocode and flowchart.
- What are advantages and limitations of flowchart.
- Write a short note on structure of C program.
- What are identifiers and keywords? Give details about any 3 keywords.
- Write a short note on symbolic constant.

2. Attempt any three of the following:

15 M

- Write a C program to add three numbers.
- Explain bitwise operator with proper example.
- Explain following standard C library functions:
1. <stdio.h> 2. <string.h> 3. <ctype.h> 4. <math.h> 5. <stdlib.h>
- Explain getchar() and putchar() function with programming example.
- What are operators in C? Explain any four operators.
- Write a C Program to find average of marks. Program should take input for 5 subjects marks from the user.

3. Attempt any three of the following:

15 M

- Write a C program to find whether entered number is positive, negative or zero.
- Explain switch statements with proper example.
- Describe for loop with proper example.
- Explain break and continue statements.
- What is call by value and call by reference in C?
- Write a short note on recursion.

4. Attempt any three of the following:

15 M

- What are automatic storage classes? Explain with proper example.
- Write a note on preprocessors in C.
- Write a C program to show the use of single dimensional array
- Write a note on passing array to function.
- What are different string handling functions?
- Give the difference between macros and functions.

5. Attempt any three of the following:

15 M

- a. What are pointers? Explain with proper example.
- b. Write a C program to perform addition and subtraction of two pointer variables.
- c. Write a note on null pointer.
- d. Write a C program for pointer to array.
- e. Explain the concept of pointer to union.
- f. Write a code in C to create structure student with element roll number, name, and marks.

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