

- N. B.: (1) All questions are compulsory.
(2) Numbers to the right indicate marks.

1. Attempt any three of the following:

15 M

- Write an algorithm for finding largest value among three values.
- What do you mean by flowchart? Explain different symbols used in flowchart.
- What are compiler, linker and preprocessor? Explain any two preprocessor.
- Explain following terms in short:
A. identifiers B. keywords C. Variable D. Constant E. data types.
- Write a note on typecasting.
- Write pseudo code to find the sum of natural numbers.

2. Attempt any three of the following:

15 M

- Explain Arithmetic and relational operator with proper example.
- What do you mean by unary operator and binary operator? Explain with proper example.
- Give the difference between while and do..while.
- When "goto" statements are used? What is the use of "labels".
- Write a program to print day name of the week using Switch case statement.
- Write a C program to check number entered is positive or negative.

3. Attempt any three of the following:

15 M

- How we define function and call function in C? Explain with proper example.
- Compare inbuilt function with user defined function.
- What do you mean by call by reference in C functions?
- Write a C program to print area of square using function.
- Write a program to swap two numbers using function in C.
- Explain stderr and Exit error handling functions in C.

4. Attempt any three of the following:

15 M

- Why pointers are used in C program ? Give reasons.
- Write a C program in C to add two numbers using pointers.
- Discuss character pointer in detail.
- Write a C program to explain the concept of Multidimensional array.
- Write a note on dynamic memory allocation.
- Write a C program to show the basic declaration of pointer.

5. Attempt any three of the following:

15 M

- a. Write a note on arrays of structure.
- b. How we define union? Explain with proper example.
- c. What are the different ways to access the file. Write a code to open a file and to access that file.
- d. Write a program to print the structure using:
 - Title
 - Author
 - Subject
 - Book IDPrint details of two books.
- e. Write a code to copy content of one file to another file.
- f. Discuss the concept of pointers to structure.

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