2 0 2 1 (Voc)

Full Marks : 50

Time : 3 hours

The figures in the right-hand margin indicate marks

Answer from **all** the Sections as directed

Section—A

(Objective Type Questions)

1. Choose the correct answers from the given options of the following : 5×1

(a) What is size of ( ) in 'C' ?

   (i) Function   (ii) Macro

   (iii) Operator   (iv) Data type

(b) Which loop construct will always be executed once?

   (i) For

   (ii) While

   (iii) Do while loop

   (iv) None of these

K2(**I**)—600   (Turn Over)

(c) # in 'C' denoted as

(i) preprocessor

(ii) predecessor

(iii) successor

(iv) directory

(d) In which laboratory 'C' language developed?

(i) AT & T Bell

(ii) Well laboratory

(iii) Microsoft

(iv) None of these

(e) Who is Dennis Ritchie?

(i) 'C' language developer

(ii) C++ language developer

(iii) Java language developer

(iv) None of these

2. Fill in the blanks of the following : 5×1

(a) A —— is a variable that can hold memory address of another variable.

(b) A —— is a group of data elements that most have different types.

K2(I)   (Continued)

(c) A function with no return type is declared as ———.

(d) The ——— function is used to concatenate one string to end of another string.

(e) A integer variable in 'C' requires ——— byte for storing the value.

Section—B

(Short Answer Type Questions)

Answer *any two* questions of the following : 2×5

3. Differentiate between structure and union with example.

4. Differentiate between algorithms and flowchart.

5. Write a program to find the factorial of the given number using user defined function.

6. Write 'C' program to check whether the given string is palindrome or not without using function.

(4)

Section—C

(Long Answer Type Questions)

Answer *any three* questions :   3×10

7. Describe the various types of loop in 'C' language.

8. What is function? Explain the types of function based on parameter.

9. Distinguish between Actual Argument and Formal Argument in a function with programs.

10. Explain any five preprocessor directive in 'C' with examples.

11. Explain the use of Malloc and Calloc function in 'C' with examples.

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