Total number of printed pages–4

52 (1) CPFP 1·4

2019

COMPUTER FUNDAMENTALS & PROGRAMMING

Paper : 1·4

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. *(a)* Fill in the blanks : 1×5=5

   (i) The major components of personal computer are _____, _____, _____ and _____.

   (ii) _____ is the language directly understood by the computer.

   (iii) _____ is defined as finite and ordered sequence of steps which when performed leads to the solution of a problem.

   (iv) BCD stands for _____.

   (v) Cache memory is faster than _____ memory.

Contd.

(b) Define the following terms : 1×5=5

(i) Assembler

(ii) Bootstrapping

(iii) Flowchart

(iv) Computer

(v) Gray codes.

2. Answer the following questions : ***(any five)*** 2×5=10

(a) Explain the logical operators used in C.

(b) What do you mean by precedence of operators in C ?

(c) Why do we use break statement in C ?

(d) Define an array with example.

(e) What is program modularization ?

(f) What is the use of NULL Character in C ?

(g) Define a pointer.

3. Answer the following questions : ***(any five)*** 3×5=15

(a) What is a structure ? Why is it used ? Explain with an example.

(b) What is the difference between two member access operators ?

• and →

(c) How is call by value method of function calling different from call by reference method ? Give suitable example to support your answer.

(d) What do you mean by two-dimensional array ? State some situations that can easily be represented by these.

(e) What do you mean by looping ? Give the syntax of looping statements in C.

(f) Distinguish between variables and keywords with examples.

4. Answer ***any three*** questions : 5×3=15

(a) Write a program in C to generate first *n* Fibonacci terms.

(b) Write a C program to read ten integers from keyboard and print number of negative and positive integers.

(c) Explain the working of the following string handling functions :

(i) str cat( )

(ii) strcpy( )

(iii) strcmp( )