

Roll No.

Total Pages : 4

BT-ID-19

31024

INTRODUCTION TO COMPUTER PROGRAMMING

Paper : CSE-101N

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *five* questions in all by selecting at least *one* question from each unit. All questions carry equal marks.

UNIT-I

1. (a) Define following terms :
 - (i) Compiler.
 - (ii) Interpreter.
 - (iii) Assembler. (3×2=6)
- (b) What are the advantages and limitations of high level languages over low level languages ? 5
- (c) Define flow-chart. What are the advantages and limitations of using flow-charts ? 4
2. (a) Define computer. Draw a block diagram of computer. What are its components ? Explain them. What are the capabilities and limitations of using computers ? 10

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- (b) Using 2's complement method, perform following operations :

(i) $(10010)_2 + (01001)_2 = (?)$.

(ii) $(-43)_{10} + (25)_{10} = (?)$. (2×2½=5)

UNIT-II

3. (a) What is the usefulness of default statement in switch statement ? Is it necessary to use it ? In which situations a switch case statement is desirable ? 5
- (b) Which storage classes are used in C language. Explain them with example. 7
- (c) Explain different ways in which variables can be assigned values ? 3
4. (a) What is conditional operator ? Write its general syntax. Write a program to find largest number among three numbers using conditional operator. 7
- (b) How is comma operator useful in for loop ? Explain with the help of relevant example. 4
- (c) Differentiate continue and go to statement with example. 4

UNIT-III

5. (a) Distinguish between the following :
 - (i) Actual and formal parameters.

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(ii) Global and local variables.

(iii) Automatic and static variables. (3×3=9)

- (b) How an array is passed to a function in C language ?
Write a function which accept an array as an argument
and find the average of its elements. 6

6. (a) Explain with an example how a string is declared and
initialised ? Write a program in C language which will
read a string text and count the number of words in it. 7

- (b) What is an array ? What is its need ? What do you
understand by 2-D array ? Write a program in C
language to arrange the elements of an array in
ascending order using bubble sort. Also print the
number of pass used. 8

UNIT-IV

7. (a) Define pointer. What are the applications of pointers
and list the disadvantages of using them ? Write a
program in C language to find the length of a string
using pointer. 7
- (b) What is the relationship between an array name and a
pointer in C ? How is an array name treated when it
appears as a function argument ? Write a program in C
to find the average of elements of an array using
pointers. 8

8. (a) What is difference between the two member access
operators

. and -> 3

- (b) How a structure differ from an array ? Give an example. 6

- (c) Write a program in C language to compare two structure
variables of the same type. 6

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