



**DIT 22**

**II Semester Diploma in Information Tech. DIT Examination, August 2009**  
**PROGRAMMING IN C LANGUAGE**

Time : 3 Hours

Max. Marks : 75

**Instruction :** Answer *all* questions in Part – A and *any five* questions in Part – B.

**PART – A**

Answer **all** the questions :

**(2×10+5×1=25)**

1. What is a flow chart ?
2. Name some Library Functions in C.
3. Write the general format of a switch statement.
4. What is a function ?
5. What is an Algorithm ?
6. Explain scanf( ) and printf( ).
7. What is recursive function ?
8. Explain the rules for framing variables.
9. What is a linked list ?
10. Write the flow chart symbol for offpage connector and decision.
11. Explain the following :
  - a) Arrays.
  - b) Library Functions.
  - c) Pointers.
  - d) getch( ).
  - e) Stdio.h.

**P.T.O.**



PART – B

Answer **any five** questions :

**(5×10=50)**

1. Explain the characteristics and structure of C programming with example.
  2. Explain the Data types, constants and arithmetic expressions in C.
  3. Explain Control Structures with an example.
  4. What is an array ? Mention different types of arrays and explain their use with example.
  5. Write a C program to calculate the absolute value of an integer.
  6. Explain Pointers and functions with an example.
  7. Explain file handling in C. Write a C program to find the largest, sum and average of five numbers.
  8. Write a C program to find the transpose of a matrix.
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