



# MATHEMATICS

# Programming in C (With ANSI features)

**Note** : Answer any **five** questions. All questions carry equal marks.

1. (a) What is Program? Write about 'C' tokens.  
(b) What is function? Write its types with examples.
2. (a) Explain type conversion with examples.

**( 2 )**

- (b) Write a program for explicit type casting.
- 3.
  - (a) What is loop ? Write the difference between while and do...while loop.
  - (b) Write a program to display 1 to 10 using loop.
- 4.
  - (a) What is Array ? Write its types with examples.
  - (b) What is conditional statement ? Write a program to find the largest value between two variables.
- 5.
  - (a) What is Operator ? Write its types with one example.
  - (b) Explain about operator precedence and associativity.
- 6. Describe points in detail with example program.
- 7. What is structure ? Write the difference between structure and union.
- 8. Write a program to find vowel using switch case on "C" language.
- 9. What is file handling technique in "C" ? Write about file opening and closing method.

**( 3 )**

**10.** Write short notes on the following :

- (a) Syntax and semantics
  - (b) Relational operator
  - (c) Linked list
  - (d) String
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