Pass Marks: 22 2

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from all the Sections as directed.

## Section - A

- Choose the correct answer from the given options:  $1 \times 5 = 5$ 
  - (a) What will be the maximum size of a float variable?

    - (i) 1 byte (ii) 2 bytes
    - (iii) 4 bytes
- (iv) 8 bytes
- (b) The operator & is used for :
  - (i) Bitwise AND (ii) Bitwise OR
  - (iii) Logical AND (iv) Logical OR

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(Turn over)

(c)	Which of the following is a ternary operator?		
	(1) ?	(ii) *	1000
	(iii) sizeof	(iv) ^	
(d)	d) An Ampersand before the name of		ame of a
	variable denotes :		
	(i) Actual Value	(ii) Variabl	e Name
	(iii) Address	(iv) Data T	уре
(e)	Which of these is not a valid parameter		
	passing method in C?		
	-(i) Call by value	(ii) Call by	reference
-	(iii) Call by pointe	r (iv) All of th	nese
2. Fill	in the blanks:		1×5 = 5
(a)	Character constants should be enclosed between Single quote		
(b)	Array subscripts in C always start at		
(c)	Maximum number of elements in the array		
^	declaration int a [5][8] is		
( (d)	The process of translating a source program		
	into machine language is a function of		
	-		4.

(e) The answer of : 7%3 is
Section - B
Answer any four questions of the following:
3×4 = 12
Describe switch-case statement with example.
What is pointer? Write a C program to swap two
numbers using pointer.
Describe fseek () and ftell () functions in C.
What are various types of datatypes available in
C language?
What is recursion? What are its advantages and
disadvantages?
What are the arithmetic operators that are
permitted on pointers? + - * / ++
Section - C
Answer any four questions of the following:
7×4 = 28
Describe various types of bitwise operators in C
language with examples.

8.

9.

- 10. Write a program to calculate salary of an employee, given his basic pay (to be entered by the user), HRA = 10% of the basic pay, TA = 5% of basic pay. Define HRA and TA as constants and use them to calculate the salary of the employee.
- 11. Write a C program to transpose a 3 × 3 martrix.
- Write a program to copy the contents of one file into another.
- Write a program to search an element in an array containing ten elements.
- 14. Write short notes on the following:
  - (a) Increment and Decrement operators

(b) Conditional Operator AND OR NOT.

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O 0 0 0

O 1 0 1

O 1 0 1

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