

312303

25226

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE :

10

- (a) Define token. State its types.
- (b) Write syntax of scanf() function.
- (c) Write syntax of while loop.
- (d) List relational operations in C.
- (e) Define array. State its types.
- (f) Give syntax of structure.
- (g) Enlist any four string functions.

2. Attempt any THREE :

12

- (a) Describe Data types conversion with example.
- (b) Explain switch case statement with syntax & example.
- (c) Explain one dimensional array with its syntax & example.
- (d) Explain pointer arithmetic operations.



- 3. Attempt any THREE :** **12**
- (a) Describe data types in C with its memory size.
 - (b) Write a C programme to display sum of even numbers between 1 to 20.
 - (c) Write a program to display length of string without library function.
 - (d) Differentiate between call by value & call by reference.
- 4. Attempt any THREE :** **12**
- (a) Distinguish between while & do while loop.
 - (b) Write a program to read numbers in 2×3 matrix & display it.
 - (c) Write a program to create user defined function 'area()' with no return type & no argument to display area of rectangle.
 - (d) Write a program to read 5 numbers in an array & display it using pointer.
 - (e) Explain pointer operators with their use, syntax & example.
- 5. Attempt any TWO :** **12**
- (a) Describe logical operators with their uses, syntax & examples.
 - (b) Explain recursive function.
 - (c) Declare structure 'Bike' with model, CC & avg. Read & display data for 2 bikes using pointer.
- 6. Attempt any TWO :** **12**
- (a) Explain structure of 'C' program.
 - (b) Declare structure 'Employee' with id, name & salary. Read & display data for 6 employees. (Use array of structure variable)
 - (c) Describe type of scope of variable in 'C' with example.
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