

22218

23242

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.

Marks

1. Attempt any FIVE of the following :

10

- (a) Draw and label any two different symbols used in flow chart.
- (b) State two differences between do while and while loop.
- (c) Give the syntax of if-else statement.
- (d) List the two mathematical functions used in C programming.
- (e) Define pointer and state the use of pointer.
- (f) Define structure.
- (g) Give the syntax to declare a pointer variable with example.

2. Attempt any THREE of the following :

12

- (a) Explain switch case statement with example.
- (b) State any four datatypes with their range.
- (c) Define Array. State any two advantages of array.
- (d) Explain `strcat ()` and `strlen ()` function with example.



- 3. Attempt any THREE of the following : 12**
- (a) Write an algorithm and draw flow chart for addition of two numbers.
 - (b) Explain for loop with example.
 - (c) Compare call by value and call by reference.
 - (d) Explain declaration of structure with example.
- 4. Attempt any THREE of the following : 12**
- (a) Explain Arithmetic operators with example.
 - (b) Write a program to display largest number among three numbers.
 - (c) Write a program to access the array elements using pointer.
 - (d) Describe declaration and initialization of two dimensional array.
 - (e) Write 'C' program to create a structure with members as day, month and year. Assign initial values to that structure and display it.
- 5. Attempt any TWO of the following : 12**
- (a) Write a program to find factorial of number.
 - (b) Write a program to add two numbers using function.
 - (c) Write a 'C' program to find largest number from an array of 10 numbers.
- 6. Attempt any TWO of the following : 12**
- (a) Write a program for addition of two 3×3 matrix.
 - (b) Explain recursive function with example.
 - (c) Declare a structure book having elements as book_number, book_title, book_price for one book using 'C' programming.
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