

22226

21819

3 Hours / 70 Marks

Seat No.

--	--	--	--	--	--	--	--	--

- 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.
  - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.

1. Attempt any FIVE of the following :

**Marks**

**10**

- (a) Draw flowchart for checking whether given number is even or odd.
- (b) List any four keywords used in 'C' with their use.
- (c) Write the syntax of switch case statement.
- (d) State any two differences between while and do-while statement.
- (e) State difference between array and string.
- (f) Declare a structure student with element roll-no and name.
- (g) Distinguish between call by value and call by reference.

2. Attempt any THREE of the following :

**12**

- (a) State four arithmetic operations perform on pointer with example.
- (b) Draw flowchart for checking weather given number is prime or not.
- (c) Write a program to reverse the number 1234 (i.e. 4321) using function.
- (d) Differentiate between character array and integer array with respect to size and initialisation.

- 3. Attempt any THREE of the following : 12**
- (a) Write a program to sum all the odd numbers between 1 to 20.
  - (b) Explain any four bit-wise operator used in 'C' with example.
  - (c) With suitable example, explain how two dimensional arrays can be created.
  - (d) Explain any two string functions with example.
- 4. Attempt any THREE of the following : 12**
- (a) Draw flowchart for finding largest number among three numbers.
  - (b) Describe generic structure of 'C' program.
  - (c) Write a program to take input as a number and reverse it by while loop.
  - (d) Write a program to accept 10 numbers in array and arrange them in ascending order.
  - (e) Explain meaning of following statement with reference to pointers :  
int \*a, b;  
b = 20;  
\*a = b;  
A = &b;
- 5. Attempt any TWO of the following : 12**
- (a) Write a program to perform addition, subtraction, multiplication and division of two integer number using function.
  - (b) Define Array. Write a program to accept ten numbers in array. Sort array element and display.
  - (c) Write a program to print reverse of a entered string using pointer.
- 6. Attempt any TWO of the following : 12**
- (a) Explain recursion with suitable example. List any two advantages.
  - (b) Write a program to accept ten numbers and print average of it.
  - (c) Enlist different format specifiers with its use.
-