

17212

16172

3 Hours / 100 Marks

Seat No.

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

Marks

1. Attempt any TEN of the following :

20

- (a) Define token ? List tokens in 'c'.
- (b) List any four relational operators.
- (c) Find error in following program and justify it.

```
#include <stdio.h>
void Main()
{
    int I, a[5] = {7,5,2,1,9,14};
    printf("%f", a[2]);
    getch ();
}
```

- (d) Write the syntax of else if-ladder.
- (e) State two differences between while loop and do while loop.
- (f) State the use and syntax of strcpy() function.
- (g) Give the syntax of switch case statement.

- (h) State any two types of function on the basis of parameter passing and return type.
- (i) State the need of function.
- (j) Define structure.
- (k) Define pointer.
- (l) Write the use of indirection operator (*).

2. Attempt any FOUR of the following :

16

- (a) Distinguish between variable and constant.
- (b) Write a program to find the sum of digit of an integer
(sum = 1 + 4 + 5 + 3 + 2 = 15)
- (c) Describe use of for loop with syntax and flowchart.
- (d) Write a program 'C' to find largest element from an array.
- (e) Describe with example any two operations on pointers.
- (f) Define recursive function. List any two advantages of recursive function.

3. Attempt any FOUR of the following :

16

- (a) Write a program to sort element of an array descending order.
- (b) Explain '*' and '&' operators used with pointer.
- (c) Explain strlen() and strcmp(). string functions with examples.
- (d) Describe with syntax and example use of continue statement.
- (e) Write syntax of declaration of function with example.
- (f) Explain any two logical operators with example.

4. Attempt any FOUR of the following :**16**

- (a) State any four features of pointer.
- (b) Explain increment and decrement operator with example.
- (c) Write a function to print factorial of a number.
- (d) Write a 'c' program to accept any integer number and print whether it is even or odd.
- (e) Describe the concept of array of structure with example.
- (f) Write a program for addition of two 3×3 matrix.

5. Attempt any FOUR of the following :**16**

- (a) Explain formatted input and formatted output with example.
- (b) Define following terms : (i) Variable (ii) Identifier (iii) Keyword (iv) Constant
- (c) Write a program to find largest of three numbers using nested if else.
- (d) Write a program to accept ten numbers and print average of it
- (e) Write a 'c' program to declare a structure student with members as roll no, name and mark. Accept and display data for one student.
- (f) Describe any two storage classes along with suitable example.

6. Attempt any FOUR of the following :**16**

- (a) Explain following terms :
 - (i) algorithm
 - (ii) flowchart
- (b) Write a program to generate Fibonacci series in C.

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- (c) Write a program in 'C' to find whether the entered number is positive or negative.
 - (d) Write a program in 'c' to copy one string into other without using built in function.
 - (e) Declare and initialize the one dimensional array with TEN elements. Explain how the elements in an array can be accessed.
 - (f) Distinguish between call by value & call by reference methods for calling function.
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