

Q.P CODE: 23993

www.muadda.com

TOTAL MARKS: 80

DURATION: 3HRS

- N.B:
1. Question No. 1 is compulsory.
 2. Answer any three out of remaining five questions.
 3. Figures to right indicates full marks
 4. Assume suitable data if necessary and state them clearly

- Q1.
- a) Define union. Compare structure and union. 4
 - b) What is an error? Explain different types of errors occurred in program. 4
 - c) Explain switch case and if-else ladder with example 4
 - d) Explain any four standard library functions from string.h. 4
 - e) Explain break and continue statement with example. 4

www.muadda.com

- Q2.
- a) Define Algorithm. Write Algorithm to check whether given number is armstrong Numbers or not also mention input and output specifications to algorithm. 10
 - b) Explain various storage classes with example. 10

- Q3.
- a) Explain Nested Structure. Write a program using nested structure to create an Array of structure to store the details of N students. 10
The details are,
 1. Student name
 2. Student Roll no
 3. Marks of Physics, Chemistry, Maths.

Calculate the total of P-C-M. Display the data in the format

Name	Roll no	Total marks
------	---------	-------------

- b) Define pointer and its use. Explain array of pointer with example. Write program to swap to values by using call by reference concept. 10

www.muadda.com

- Q4.
- a) Explain recursive function. Write a program to find the GCD of a number by Using recursive function. 10
 - b) Write a program to perform matrix multiplication by passing input matrix to the function And printing resultant matrix. 10

- Q5. a) Write a program to display following pattern: 5

```

1
2 3 2
3 4 5 4 3
4 5 6 7 6 5 4
5 6 7 8 9 8 7 6 5
    
```

www.muadda.com

Q.P CODE: 23993

- b) Write user defined function to implement string concatenation. 5
www.muadda.com
- c) Explain need of file data and various modes of files also write program to create and edit copy of file 10
- Q6. a) Write a program to sort the given array in ascending order. 10
- b) Write a program for finding sum of series, $1+2+3+4+\dots$ upto n terms. 5
- c) Draw the flow chart to find roots of a quadratic Equation. 5

www.muadda.com

www.muadda.com