

**C.U.SHAH UNIVERSITY**

WADHWAN CITY

University (Winter) Examination -2013

Subject Name: -Programming in C

Course Name :PGDCA Semester-I

Duration :- 2:30 Hours

Date : 04/12/2013

**Instructions:-**

- (1) Attempt all Questions of both sections in same answer book / Supplementary.
- (2) Use of Programmable calculator & any other electronic instrument is prohibited.
- (3) Instructions written on main answer Book are strictly to be obeyed.
- (4) Draw neat diagrams & figures (If necessary) at right places.
- (5) Assume suitable & Perfect data if needed.

**SECTION-I****Q. 1 Attempt the following.**

- |  |   |
|--|---|
| a) Write a note on C program structure.      | 2 |
| b) Explain increment and decrement operator. | 2 |
| c) Write a note on symbolic constant.        | 2 |
| d) Explain conditional operator.             | 1 |

**Q. 2 Answer the following.**

- |   |   |
|---|---|
| a) Explain conditional and logical operators with suitable example. | 5 |
| b) Explain nested if-else statement with suitable example.          | 5 |
| c) Explain any one entry controlled loop with suitable example.     | 4 |

**OR**

- |  |   |
|--|---|
| a) Explain the process of declaring and initialization of 2D array with example. | 5 |
| b) Explain nested for loop with suitable example.                                | 5 |
| c) Explain any two string handling function with example.                        | 4 |

**Q. 3 Answer the following.**

- |   |   |
|---|---|
| a) Write a C program to input any string and print following.   | 7 |
| e.g. Input string : pgdca   |   |
| Output : p  |   |
| pg  |   |
| pgd   |   |
| pgdc  |   |
| pgdca   |   |
| b) Write a C program to create array of 5 elements and input data. Pass this array to UDF and find minimum element. | 7 |

**OR**

- |   |   |
|---|---|
| a) Write a program to input data in 3 x 3 arrays and find maximum.    | 7 |
| b) Write a program to print following series.                         | 7 |
| 1      4      3      16      5      36      7      64      9      100 |   |

1/2



**SECTION – II**

**Q. 4 Attempt the following.**

- a) Define UDF and pointer. 2
- b) What is File and file modes. 2
- c) Explain union with suitable example. 2
- d) What is function prototype. 1

**Q.5 Answer the following.**

- a) What is structure ? Explain array of structure by example 5
- b) What is recursion ? Explain with suitable example. 5
- c) Explain getch() and putc () functions with suitable example. 4

**OR**

- a) What is pointer ? Explain pointer to string with suitable example. 5
- b) Explain storage classes available in C. 5
- c) Explain bit-field. 4

**Q. 6 Answer the following.**

- a) Write a C program to input any string and print its length and reverse string. 7  
e.g.        Input string    :    pgdca  
              output         :    5  
                                  acdgp
- b) Write a C program to input three nos. and find maximum using UDF with return values. 7

**OR**

- a) Write a C program to input 10 Nos. and store it into XYZ.TXT file and print only odd nos. by reading XYZ.TXT file. 7
- b) Write any C program that demonstrates the use of call by reference. 7

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