Total No. of printed pages = 3

Co-304/PUC/3rd Sem/2013/N

PROGRAMMING USING C

Full Marks – 70

Pass Marks - 28

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer question No. 1 and any four from the rest.

1. (a) State true or false. $5 \times 1=5$

- (i) It is not necessary to make same number of arguments in formal parameter compared to actual parameter.
- (ii) If we write printf() statement in capital letter, even then the compiler understand it.
 - (iii) A global variable can be accesses from any function.
 - (iv) &marks [0] indicates the base address of the array marks [].

(v) Example of a derived data type is float.

[Turn over

(b) Short questions : $5 \times 1=5$

5

- (i) What is a nested-if statement ?
 - (ii) What is a header file?
 - (iii) What do you understand by user-defined function ?
 - (iv) State the difference between %c and %s.
 - (v) Why is C called a structured language?
- 2. (a) Define algorithm. Also list the characteristics of an algorithm. 5
 - (b) Write an algorithm to read a number and find the sum of digits of the number. 6
 - (c) What is a flowchart ? Write down the symbols used in a flowchart. 4
- (a) Write a C program to input n numbers, and 3. find the count of odd and even numbers. 8
 - (b) Differentiate between global and local variable. 7
- (a) Write a C program to find the roots of a 4. quadratic equation. 10
 - (b) Differentiate between structure and union.

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- 5. (a) Explain the use of break and continue statement. 3
 - (b) Differentiate between "while" and "do while" statements. 3
 - (c) Create a structure for keeping the following date playerid, player_name, innings_played, total_run. Enter 11 such records and display them.
 - (d) What do you mean by call-by-value and callby-reference. 3
- 6. (a) What is an address variable? Explain how "malloc" function can allocate memory of n integers.
 - (b) Write a C program to find the length of a string without using function. 8
- 7. (a) Differentiate between Structure and Union.
 - (b) Write a C program to enter records of n students (roll no, name, marks) and display the name of the student who secured marks less than 30. 10

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