

# END TERM EXAMINATION

FIRST SEMESTER [MCA] DECEMBER 2015- JANUARY 2016

Paper Code: MCA 103

Subject: Programming in C

Time : 3 Hours

Maximum Marks :75

Note: Attempt any five questions including Q.no. 1 which is compulsory.

- Q1. Explain briefly. (6.25x4=25)
- a) Differentiate between do while and while loop.
  - b) Differentiate between structure and union.
  - c) Differentiate between variables and constants.
  - d) Differentiate between malloc ( ) and calloc ( )
- Q2. Define GCC utility. Why do we use it? Explain using an example. (12.5)
- Q3. a) What is data type? Discuss various data types used in C language. (6.25)
- b) Write a program to explain the use of break and continue statement. (6.25)
- Q4. a) What are pointers? Explain with example. (6.25)
- b) Explain pointers to pointers, pointer to array and array of pointers. (6.25)
- Q5. What is output of the following code and explain it. (12.5)

```
main ( )  
{  
    int x= 100, y= 200;  
    printf("%", (x>y) ? x: y);  
}
```

- Q6. a) Write any four string handling functions with examples. (6.25)
- b) Write a program that reads a file and counts the characters, spaces, tabs and new lines in the file. (6.25)
- Q7. Define file accessibility and directories regarding LINUX into C. (12.5)
- Q8. Write short notes on any two: (6.25x2=12.5)
- a) Process Control.
  - b) getc ( ) and putc ( )
  - c) scanf ( ) and printf ( )