

END TERM EXAMINATION

First Semester [MCA] December 2013

Paper Code:MCA-103

Subject: Programming in C

Time: 3 Hours

Maximum Marks:60

Note: Attempt any five questions in all. Q.No.1 is compulsory.

- Q.1 Explain briefly **(5x4=20)**
- (a) Differentiate between array & structure.
 - (b) Differentiate between near & far pointer.
 - (c) Differentiate between static memory allocation & dynamic memory allocation.
 - (d) Differentiate between auto & static storage class.
- Q.2 Define 'Make' utility. What is the scope & use of make file. Explain using an example. **(10)**
- Q.3 (a) Differentiate between recursion & iteration. Explain using an example. Which can be solved by both methods. **(5)**
- (b) Write a program to explain the use of 'switch' statement. **(5)**
- Q.4 (a) Define type casting. Explain using an example. **(5)**
- (b) What is Bit-wise operation. Provide '5' Bit-wise operations. **(5)**
- Q.5 Write the correct output for the following system & explain. **(10)**
- (a) `i=(++i) X (++i)`
 - (b) `l=(i++) X (i++)`
 - (c) `l=(i++) X (++i)`
- Q.6 (a) Define C pre-processor & their usage. **(5)**
- (b) Write a program to copy the file contents into another file. **(5)**

Q.7 Define the following commands (10)
(a) Fork () (b) Wait () (c) Exec ()

Q.8 Write short note on any two: (5x2=10)

- (a) Thread
- (b) Array of pointers
- (c) Fflush () function
