END TERM EXAMINATION

FIRST SEMESTER [MCA] DECEMBER 2007

Paper Code: MCA105	Subject: Problem Solving Using C
Time: 3Hours	Maximum Marks: 60
Note: Q1 is compulsory. Attempt any four questi	ions from Q.2 to Q.7.
Q1. (a) The indirection operator is the (i) Asterisk (iii) Dollar sign	(ii) Ampersand (iv) Plus sign
(b) You can pass to functions.(i) Copies of individual structure members(iii) Pointers to Structures	(ii) Copies of entire structures (iv) All of above
(c) The function whose prototype is void get data (i) a pointer to a structure (iii) a copy of structure	(ii) a reference to a structure (iv) nothing
(d) When you omit parameters from a function of (i) Formal parameters (iii) Over loaded parameters	all, value can be provide by (ii) reference parameters (iv) default parameters.
(e) Output of: - if (3.14) printf ("Hello"); else printf ("Bye");	
is: - (i) Hello (iii) None	(ii) Bye (iv) Both
(f) Out of: - void main () {int i = 4; While (i > 0) { Printf ("%d",i); i = -1; }	
(i) 4 3 2 1 (iii) 4 3	(ii) 4 (iv) none of above
(g) Library header file usually contain	
(h) When a variable exist or is accessible it is sa	aid to be

(iii) In scope	(iv) Available
(i) The function that takes arguments to	o set the bits of Count is
(i) setf ()	(ii) bitsef ()
(iii) ios ()	(iv) flag ()
Q2. What is Entry Control Loop? How it differ to generate the prime numbers between 1	1

(ii) In the path

- Q3. (a) What is macro? How does it differ from function? Write a program using macro to add two numbers.
 - (b) What are different storage classes in C?
- **Q4.** (a) Differentiate between: -
 - (i) Call by reference and call by value
 - (ii) Structure and Union

(i) Immediate

- (b) Write a program to sum the series 1- $x^2/2! + x^4/4! x^6/6!$
- **Q5.** Writer a program to store the data of the Employees, department wise in a file. You Should be able to generate the following report: -
 - (a) Print the strength department wise.
 - (b) Print the details of highest paid employee.
- **Q6.** (a) Write a function to evaluate determinate of order 2. Use it to evaluate the Determinate of order 3.
 - (b) What do you understand by preprocessor directives? Give examples.
- Q7. Write short notes 0on any two of the following: -
 - (a) Pointer to function
 - (b) Actual and formals parameters
 - (c) Enumerated data types.