

Roll. No.....

1211108

M.Tech (CSE) 1st Semester Examination

Dec.2012 – Jan.2013

Advance C/C++ Programming

Subject Code: CSL-507

Time Allowed: 03 hours.

Maximum Marks: 100

Before answering the question paper the candidate should ensure that they have been supplied the correct question paper. Complaints in this regard, if any, shall not be entertained after the examination.

Note: Attempt any five questions and all questions carry equal marks.

Section – A

- 1 i) Write operations which are performed on files with their syntax and in how many modes we can open a file? [10]
ii) In how many ways we can access files? Explain random access to files and their functions in detail. [10]
2. How structures can be passed to function? Explain difference between processing of structure and union. [20]
3. i) Explain operator overloading with the help of program.[10]
ii) Explain different types of inheritance in C++. [10]
- 4 i) What do you mean by persistent object and namespaces. Explain with example. [10]
ii) Write a program for calculating area of circle which will throw a user defined exception named as “NegativeAreaException” when entered radius is negative? [10]

5. Write c Code for Preparation of the following rank list of a class of students using pointers and two dimensional arrays [20]

Input students names & their marks in four subjects

S.Laxmi	45	67	38	55
V.S.Rao	77	89	56	69
A.Gupta	66	78	98	45
S.Mani	86	72	0	25
R.Daniel	44	55	66	77

S.Laxmi	45	67	38	55	205
V.S.Rao	77	89	56	69	291
A.Gupta	66	78	98	45	287
S.Mani	86	72	0	25	183
R.Daniel	44	55	66	77	242

Ranked List

V.S.Rao	77	89	56	69	291
A.Gupta	66	78	98	45	287
R.Daniel	44	55	66	77	242
S.Laxmi	45	67	38	55	205
S.Mani	86	72	0	25	183

6. Write short notes on [5*4]

- i) Dynamic binding
- ii) constructor overriding and manipulators
- iii) information hiding
- iv) Friend function ,virtual function
- v) abstract base class, virtual base class and this pointer