[07 – 2220]

II/IV B.Tech. DEGREE EXAMINATION.

Second Semester

Computer Science and Engineering

OBJECT ORIENTED PROGRAMMING

(Common with Dual Degree Programme in C.S.E and I.T)

(Effective from the admitted batch of 2006–2007)

Time : Three hours   Maximum :70 marks

Question No. 1 is compulsory.

Answer any FOUR from the remaining.

All questions carry equal marks.

Answer all parts of any question at one place.

PART – A

1.   (a)   What is data abstraction?

     (b)   What is data member and member function in CPP?

     (c)   What is purpose of static keyword?

     (d)   What is template? Give its advantages.

     (e)   Differentiate between array and vector.

     (f)   What is the difference between throw and throws?

     (g)   What is package? Give the syntax.

PART – B

2. What is object oriented programming? Explain its characteristics.

3. Discuss various forms of constructors. Explain its limitations.

4. Explain the concept of function template. Develop a function template for finding the minimum value contained in an array. Write a main function to find the minimum value of integer array and minimum value of floating point numbers in an array.

5. Explain about friend function. Write a C++ program to overload the post and preincrement '+ +' operator using friend function.

6. (a) What are the various access specifies in Java? Explain.

   (b) Explain method overriding with suitable example.

7. (a) Describe different categories of exceptions in Java.

   (b) Write a program using try/catch mechanism to handle arithmetic exception and explain its output.

8. Explain the various steps involved in creating multiple threads by implementing the runnable interface. Give an example.

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