VASAVI COLLEGE OF ENGINEERING (*Autonomous*), HYDERABAD
B.E. (Mech. Engg.) II Year II-Sem. Advanced Supplementary Examinations, June/July-2017

Finishing School-II : Technical Skills

Time: 1½ hours   Max. Marks: **35**

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (5 × 2 = 10 Marks)

1. Differentiate new and delete operators.

2. What is the use of 'this' pointer?

3. List the operators which cannot be overloaded.

4. What is meant by simple inheritance?

5. List the advantages of template concept in Object Oriented Programming.

Part-B (5 × 5 = 25 Marks)

6. a) Define reference variable. Develop any one program using reference variable concept.   [4]
   b) Define function overloading.   [1]

7. a) Define constructor. What is the use of constructor? List the types of constructors.   [3]
   b) Discuss about constant member function.   [2]

8. a) Discuss the advantage of operator overloading using a simple program.   [4]
   b) What are the restrictions in operator overloading concept?   [1]

9. a) List the different types of inheritance.   [2]
   b) Develop a simple program to discuss about inheritance concept.   [3]

10. a) Implement division of two numbers program using exception handling concept.   [3]
    b) Write the syntax of function template concept.   [2]

11. a) Discuss about default arguments.   [3]
    b) Discuss about constant object.   [2]

12. Answer any *two* of the following:
    a) Develop the program to overload binary + operator.   [2½]
    b) Write the syntax to derive one class from another class.   [2½]
    c) Develop the program to add two integers and two floats using function template concept.   [2½]

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