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Roll No .....

**IT-830 (GS)**  
**B.E. VIII Semester Examination, June 2020**  
**Grading System (GS)**  
**Component Based Software Engineering**  
**(Elective - III)**  
**Time : Three Hours**

**Maximum Marks : 70**

**Note:** i) Attempt any five questions.  
ii) Each question carry equal marks.

1. What do mean by modelling Language? Classify the UML diagram for various scenarios.

OR

Explain the designing models of modularity and Integration.

2. a) Explain the implementation of an Air Conditioner machine Components with suitable block diagram.

b) Explain the various risk factors in component-based software engineering.

3. What do you mean by Component Testing? What are the major challenges during testing of component when consider them as a black box.

4. Describe the Enterprise Java Beans components with suitable example.

5. Explain the high risk mistakes in component-based software engineering.

6. Explain CORBA Component model with example.

7. Describe the Microsoft's COM+ Component Model with suitable example.

OR

Why do we need Measurement or metrics? Why it is required in CBSE?

8. Write short notes on:(Any Two)

i) COM+

ii) Software Agents

iii) Component Libraries

iv) Scalable Applications

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