Roll No ....

IT-701-GS

B.E. VII Semester

Examination, December 2020

Grading System (GS)

Object Oriented Analysis and Design

Time : Three Hours

Maximum Marks : 70

Note: i)   Attempt any five questions.

ii) All questions carry equal marks.

1. a)   Describe Object-Oriented analysis and compare with conventional one.

   b)   Discuss view layer design to withdraw amount from ATM banking.

2. a)   What is Polymorphism and what are various types of its?

   b)   Explain the concept of SDLC? What are different types of SDLC approaches?

3. a)   Draw and explain the OMT object model for a students examination system?

   b)   What do you understand by design optimization? Discuss its significance?

4. a)   Draw a use case diagram for a library information system and a sequence diagram to issue a book from a library.

   b)   Elaborately discuss the identifying classes and their behaviours through sequence and collaboration modeling in use case driven approach.

5. a) Explain the generalization using a suitable example and also define the term discriminator.

   b) Compare Object-Oriented programming language C++ and JAVA.

6. a) Explain relational Vs. object-oriented database.

   b) Explain the architecture of object-oriented database.

7. a) Describe the term abstract method and abstract class using a suitable diagram.

   b) Explain implementation of control in object oriented design, using suitable example.

8. Explain about the following diagram with example
   a) UML State Chart Diagram
   b) UML Class Diagram
   c) UML Component Diagram

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