



**SGVU** SURESH  
GYAN VIHAR  
UNIVERSITY  
DIRECTORATE OF DISTANCE EDUCATION

**INTERNAL ASSIGNMENT - 1**

**Course: MCA**

**Semester: III**

**Specialization: NA**

**Total Marks- 15**

**OBJECT ORIENTED ANALYSIS AND DESIGN**

**Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)**

**A. Give an example Collaboration diagram and explain.**

**B. Explain why object-oriented approach is preferable when compared to other approaches?**

**C. What do you mean by object-oriented design model? Also discuss the input and output of object-oriented design.**

**Q.2. Write short notes on all of the following topics (1 mark each – Word limit – 100)**


**A. Abstraction**

**B. Encapsulation**

**C. Distribution of objects**

**D. Discuss the significance of patterns.**

**E. Persistent & Non-persistent Objects**

 <b>SGVU</b> SURESH GYAN VIHAR UNIVERSITY DIRECTORATE OF DISTANCE EDUCATION	<b>INTERNAL ASSIGNMENT - 2</b>
<b>Course:</b> MCA	<b>OBJECT ORIENTED ANALYSIS AND DESIGN</b>
<b>Semester:</b> III	
<b>Specialization:</b> NA <b>Total Marks-</b> 15	

**Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)**

**A. What are the various kinds of Classifiers? Explain.**

**B. State and explain the common mechanisms in the UML.**

**C. Draw the usecase diagram and the activity diagram for an online airline reservation system. Summarize the purpose of each usecase, actor, and its importance. Briefly explain various activity states and action states in the activity diagram.**

**Q.2. Write short notes on all of the following topics (1 mark each – Word limit – 100)**

- A. Test strategy and Test plan**
- B. Sequence Diagram and Collaboration Diagram**
- C. Stereotypes**
- D. Interaction diagrams**
- E. Persistent & Non-persistent Objects**