

**GLS UNIVERSITY**  
**Faculty of Computer Applications & IT BCA SEM IV**  
**SOOAD**  
**Assignment – 5**

<b>Q-1</b>	<b>Fill in the blanks.</b>
1.	_____diagrams are used to display the interaction between users,screens,object and entities within the system.
2.	A_____defines a specific kind of communication between instance in an interaction.
3.	_____represents a coherent set of roles that users of use-cases play.
4.	_____diagram describe the interactions among objects in terms of sequenced messages.
5.	The_____connecting objects in a collaboration diagram show the various paths available for messages.
6.	An _____ diagram shows the flow of control from activity to activity.
7.	_____indicates the beginning of a workflow on an activity diagram.
8.	A _____ element connects the various elements of the activity diagram.
9.	A_____diagram describes the states of an object or system as well as the transitions between states.
10.	A_____represents a visible mode of behavior of an object that persists for a period of time.
<b>Q-2</b>	<b>True and False.</b>
1.	Lifeline notation elements are placed at the bottom of the diagram.
2.	The vertical dimensions shows TOP-DOWN sequence and horizontal dimensions shows LEFT-RIGHT sequence in Sequence Diagram.
3.	Guidelines are the conditions used throughout UML diagrams to control flow.
4.	Collaboration Diagrams are also known as Communication Diagram.
5.	Links are represented by dotted line in collaboration diagramm.
6.	An initial state shows the end of a workflow on an acivity diagram.
7.	Transition is drawn as a solid line with an open arrowhead.
8.	A statechart diagram is also known as state-machine-diagram and state-transition-diagram.
9.	An action is described as a task that takes place within a state such as on entry, on exit, do.
10.	Simple state contains substates.
<b>Q-3</b>	<b>Answer the following questions.</b>
1.	Explain the Elements of following diagram. 1 Activity diagram 2 State chart 3 Sequence diagram 4 Collabroration diagram
2.	Explain the guide line for 1 Activity diagram 2 Sequence diagram

3.	What is fork and join in activity diagram explain with example.
4.	What is state in state chart? Explain the types of statechart diagrams.
<b>Q-4</b>	<b>Draw the diagrams – Activity diagrams using swimlane</b> <ol style="list-style-type: none"> <li>1 Online Admission Process</li> <li>2 Online Shopping Portal</li> <li>3 Appointment booking System</li> <li>4 Food ordering system</li> </ol>
<b>Q-5</b>	<b>Draw the Sequence diagram for below process.</b> <ol style="list-style-type: none"> <li>1 Registration process.</li> <li>2 Login Process</li> <li>3 Payment Process</li> <li>5 Order process</li> </ol> <b>Draw the State chart diagram for below process.</b> <ol style="list-style-type: none"> <li>1 Door state</li> <li>2 Car gear shift process</li> </ol>