Enrollment No._____

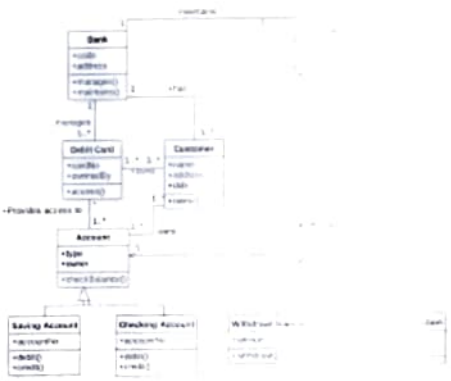
NAVRACHANA UNIVERSITY
a UGC recognized University

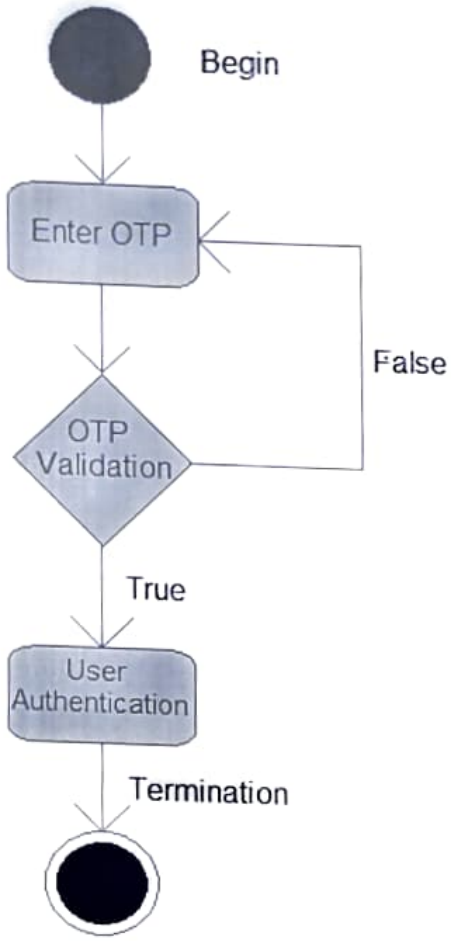
School: School of Engineering and Technology
Program/s: BCA
Year: 2nd **Semester:** 4th
Examination: End Semester Examination
Examination year: May – 2023

Course Code: CA213 **Course Name:** Object Oriented Analysis & Design
Date: 18/05/2023 **Total Marks:** 40
Time: 10:00 am to 12:00 **Total Pages:**

Instructions:

a) Attempt All the Questions
b) No Calculator is allowed

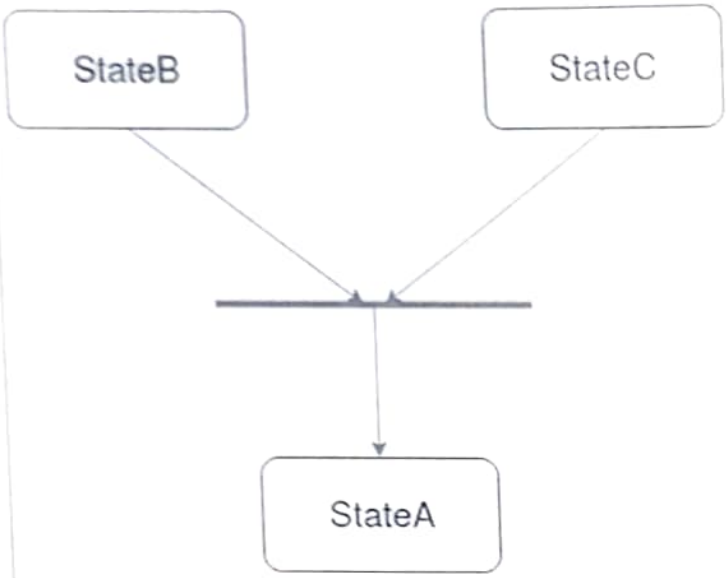
Q. No.	Details	Marks	CO	BTLO
	Attempt All the Questions(1 marks each)	40		
Q.1	The figure shown is an example of _____ diagram  A. class B. use case C. data dictionary D. none of the mentioned		CO2	BTLO2
Q.2	The figure shown is an example of _____ diagram		CO3	BTLO3



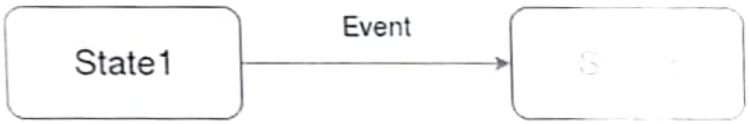
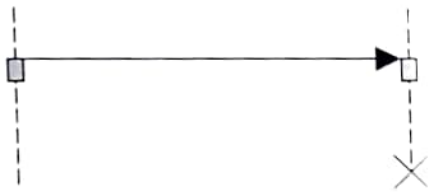
A. state
B. sequence
C. use case
D. classs

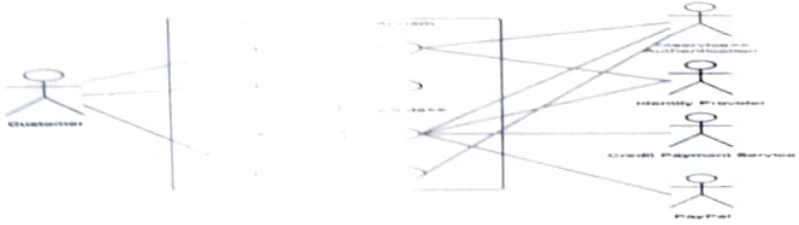
Q.3	If two object receives events at same time without interacting then they are inherent. A. True B. False		CO4	BTLO4
Q.4	The first step of domain analysis is A. Identify Conceptual Classes B. Identify Actions C. Identify Attributes D. Identify Datatypes		CO5	BTLO5
Q.5	What does a message mean in sequence diagram? A. It Passes all communications from one object to another and are represented by message arrows in sequence diagrams B. Te message goes from the sending object's lifeline to the receiving object's lifeline only		CO1	BTLO1

	C. It is a rectangle containing an identifier with a dashed line extending below the rectangle D. All mentioned			
Q.6	Which of the following Combines two concurrent activities and re-introduces them to a flow where only one activity can be performed at a time? A. Joint symbol B. Fork symbol C. Note symbol D. Decision symbol		CO2	BTLO2
Q.7	We need not implement two subsystem that are inherently concurrent as separate H/W units. A. True B. False		CO3	BTLO3
Q.8	How many steps are there in domain state model? A. 5 B. 4 C. 6 D. 7		CO4	BTLO4
Q.9	There can be multiple starts in an activity diagram. A. True B. False		CO5	BTLO5
Q.10	The concepts of diagrams and classes are intrinsically linked with each other and form the foundation of object oriented paradigm. A. True B. False		CO5	BTLO5
Q.11	First step in system design is to divide the system into pieces A. True B. False		CO2	BTLO5
Q.12	Sequence diagram have some different purpose as compared to which of the following diagram? A. Class Diagram B. Use case C. Interaction D. None mentioned		CO2	BTLO3
Q.13	The figure shown represents which relation in state chart diagram?		CO3	BTLO3



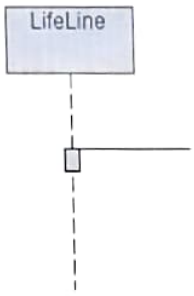
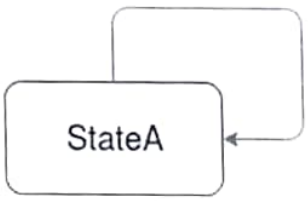
A. Join
B. Fork
C. Inheritance
D. Generalization

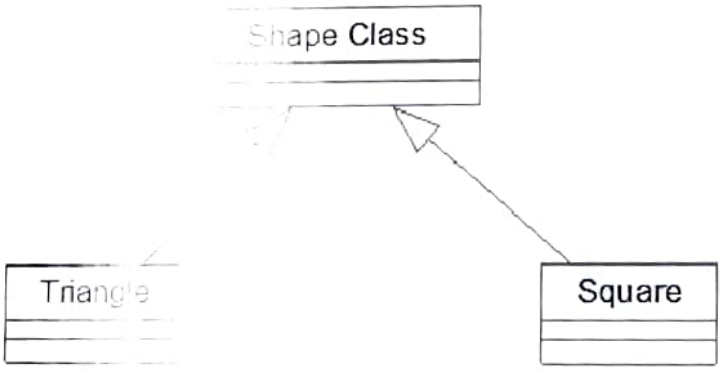
Q.14	We use a solid arrow to represent the _____ of control from one state to another.  A. transition B. event C. state D. relation		CO3	BTLO3
Q.15	The symbol shown in the figure represents _____ in a sequence diagram.  A. Destroy B. End C. Break D. None of the mentioned		CO2	BTLO2
Q.16	OMT stands for _____ Modeling Technique		CO2	BTLO2
Q.17	The figure shown is an example of _____ diagram		CO4	BTLO1



A. Use Case
B. Activity
C. State
D. Sequence

Q.18	The first object–oriented language was C++ that was developed in 1960. A. True B. False		CO4	BTLO1
Q.19	An _____ is a specification of a significant occurrence that has a location in time and space A. Event B. State C. Machine D. Sequence		CO4	BTLO1
Q.20	What type of core-relationship is represented by the symbol in the figure below?  A. Aggregation B. Dependency C. Generalization D. None of the mentioned		CO5	BTLO2
Q.21	The _____ diagram represents the flow of messages in the system and is also termed as an event diagram A. Sequence B. Activity C. State D. Use case		CO5	BTLO4
Q.22	What is a lifeline in sequence diagram? A. It is a frame consisting of a rectangle with a pentagon in its upper left-hand corner		CO5	BTLO4

	B. It is a rectangle containing an identifier with a dashed line extending below the rectangle C. It is a name compartment; the interaction is represented inside the rectangle D. None of the mentioned			
Q.23	_____ is represented by a thin rectangle on the lifeline in sequence diagram.  		CO2	BTLO4
Q.24	Identifying Actions are part of domain class model. A. True B. False		CO1	BTLO4
Q.25	A solid arrow pointing back to the state itself to represent a _____ in state chart diagram.  A. self transition B. loop C. self message D. self loop		CO1	BTLO4
Q.26	In domain _____ the emphasis is on key concept and deep structural relationships and not the users view of them A. Analysis B. Class Model C. State Model D. Interaction Model		CO1	BTLO4
Q.27	The symbol shown represents _____ start in an activity diagram.		CO2	BTLO4

	A. start B. end C. decision D. None of the mentioned			
Q.28	Some Domain objects pass through connected distinct states and each state has different constraints and Association or multiplicities. A. True B. False		CO4	BTLO4
Q.29	The symbol shown in the figure represents _____ in a sequence diagram  A. Self-message B. Loop Message C. Recursive Message D. All mentioned		CO6	BTLO4
Q.30	A _____ diagram consist of states, events and activities.		CO6	BTLO4
Q.31	The state diagram describes the various states that object can assume and their properties and Constraints in all and the events take in each state		CO6	BTLO4
Q.32	What type of relationship is represented by Shape class and Square  A. Realization B. Generalization C. Aggregation D. Dependency		CO1	BTLO1
Q.33	The first step of domain class model is		CO4	BTLO4

	A. Find classes B. Prepare a data dictionary C. Find associations D. Find attributes of objects and links			
Q.34	The second step of domain class model is A. Find classes B. Prepare a data dictionary C. Find associations D. Organize and simplify classes using inheritance		CO4	BTLO4
Q.35	An individual participant in the sequence diagram is represented by a _____. A. Lifeline B. Activation C. Message D. All mentioned		CO3	BTLO5
Q.36	Finding attributes of objects and links are part of the domain analysis model. A. True B. False		CO3	BTLO5
Q.37	To design an algorithm you have to: A. Choose algorithms that minimize the cost of implementing operations B. Select data structures appropriate to the algorithms C. Assign operations to appropriate classes D. All mentioned		CO3	BTLO5
Q.38	Domain class model the static structure of real world system A. True B. False		CO4	BTLO1
Q.39	What is a sequence diagram? A. A diagram that shows interacting individuals along the top of the diagram and messages passed among them arranged in temporal order down the page B. A diagram that shows messages superimposed on a diagram depicting collaborating individuals and the links among them C. A diagram that shows the change of an individual's state over time D. All mentioned		CO4	BTLO1
Q.40	While designing algorithms selecting data structure is not important or needed. A. True B. False		CO5	BTLO1

**********End of Question Paper**********