# DAYANANDA SAGAR UNIVERSITY

Date: 19/05/2020
Time: 10.00AM -11.20AM

## School of Engineering

**KUDLU GATE, BANGALORE-560068**

## Department of Computer Applications

**Course:** OOAD using UML
**Course code: 16CA207**
**Max. Marks:** 50
**Session:** JAN – MAY 2020

**Year/Semester: 2nd / IV**
**Internal Assessment:** III(online)
**Duration:** 1 hour 20 minutes

**Note: 1.Answer all the Questions**
**2. PART A-1 Mark PART B - 2 Marks PART C - 3 Marks**

| Question No. | Question<br>PART A |
|---|---|
| 1. | Elaborate UML:..... |
| 2. | .....specifies the overall purpose of the system and what it must do.<br>a)requirement document b)design document<br>c) maintenance document d) implementation document |
| 3. | ---------- specifies the stages through which software evolves from the time it is used. |
| 4. | What is the correct sequence of the stages below:<br>a) Analysis,implementation,design,testing<br>b) Analysis ,design,implementation,testing<br>c) Analysis,testing,implementation,design<br>d) Design,Analysis, implementation, testing |
| 5. | Booch Methodology was developed in --------<br>a)1986 b)1989 c)1989 d)1999 |
| 6. | Rumbaugh methodology is also known as ----------. |
| 7. | Which among the following is not the stage of Rambaugh methodology:<br>a)Analysis b)System design<br>c)Object Design d)Maintenance |
| 8. | Object model is presented by ----------<br>a)Data store b) Data flow diagram<br>c)Data dictionary d) Database |
| 9. | ----------diagram is used for dynamic model.<br>a)component b)state<br>c)class d)object |
| 10. | ----------diagram can be used to present functional model.<br>a)Data flow b)state<br>c)Class d)interaction |
| 11. | Non-generative patterns are passive. State true or false. |
| 12. | Grady Booch, James Rumbaugh, and Ivar Jacobson combined the best features of their individual object-oriented analysis into a new method for object oriented design known as<br>a)HTML<br>b)XML<br>c)UML |

| | |
|---|---|
| | d) SGML |
| 13. | Which among the following UML diagrams not used in BOOCH methodology:<br>a)Class diagram b)Object diagram<br>c) Component diagram d) Process diagram. |
| 14. | Object diagram contain classes connected by ----------lines.<br>a)association b) aggregation<br>c)cumulative d)specialization |
| 15. | ---------- specifies the how the system should be constructed to satisfy the requirements.<br>a)implementation code b) Framework<br>c)Design document d)pattern |
| 16. | ----------is a disciplinary process for industrialised development of software,based on use case driven design.<br>a)OOSE b)OOAD<br>c)OOSL d)Objectory |
| 17. | Unified approach is mainly based on: ----------methodology.<br>a)Booch b) Carman<br>c)Jacobson d)Rumbaugh |
| 18. | Identify the class for ATM system among the following:<br>a)Rs.50 bill b)PIN<br>c)deposit envelope d)account |
| 19. | Identify the attribute of the ATM system from the following:<br>a)PIN b)account<br>c)deposit envelope d)Rs.50 bill |
| 20. | State true or false:<br>Is bank database a class in ATM system? |
| 21. | ----------describes how the system changes as its objects interact with each other.<br>a)System structure b)System behaviour<br>c)System function d)System |
| | **PART B** |
| 1. | Booch Methodology covers ----------and ----------phases of an Object oriented system. |
| 2. | ----------represents best practice and ----------represents bad practice. |
| 3. | Object oriented methodologies are a set of ----------, ---------- and ---------for developing systems. |
| 4. | Define actor in a use case diagram. |
| 5. | Mention 4 classes for ATM system. |
| 6. | What is objectory in Jacobson methodology? |
| 7. | Mention some of the essential components of a pattern. |
| | **PART C** |
| 1. | Mention the steps of macro development process. |
| 2. | Mention the steps of micro development process. |
| 3. | Mention one difference between patterns and frameworks. |
| 4. | Mention any two features of pattern. |
| 5. | Provide the different layers used in unified approach. |

# DAYANANDA SAGAR UNIVERSITY

Date: 28/04/2020

Time: 2.00PM-3.30PM(Extended to 4.00PM as it is online)

## School of Engineering

**KUDLU GATE, BANGALORE-560068**

## Department of Computer Applications

**Course: Object Oriented Analysis and Design using UML**
**Course code: 16CA207**
**Max. Marks:** 50
**Session:** JAN – MAY 2020

**Year/Semester: 2nd/IV**
**Internal Assessment:** II (Online)
**Duration:** 1½ hours(2hrs online)

---

**Note: 1.Answer any FIVE full Questions**
**2. Each question carries 10 marks**

| Question No. | Question | Marks |
|---|---|---|
| Q. 1. | Write a short note on Class diagram. | 10 |
| Q. 2. | Explain sequence diagram in detail. | 10 |
| Q. 3. | Write a short note on Activity diagram. | 10 |
| Q. 4. | Draw a Component diagram for any real time scenario. (Ex.ATM) | 10 |
| Q. 5. | Elaborate the Deployment diagram with necessary example. | 10 |
| Q.6. | Explain State chart diagram with an example. | 10 |