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Reg. No. : ..... 2 .....

Name : ..... *Dev* .....

**Sixth Semester B.C.A. Degree Examination, April 2019**  
**Career Related FDP under CBCSS**  
**Group 2 (b) : COMPUTER APPLICATIONS**  
**Core Course**  
**CP 1642**  
**Object Oriented Analysis and Design**  
**(2014 Admision Onwards)**

Time : 3 Hours

Max. M

**SECTION - A**  
**(Very Answer Type)**

**One word to maximum of one sentence. Answer all questions. (10×1=10)**

1. Define class.
2. What is encapsulation ?
3. Expand OOA.
4. Define Abstraction.
5. Expand UML.
6. Define Message.
7. Draw the symbol to represent actor in UML.
8. Define sequence diagram.
9. What is meant by Interaction diagrams ?
10. Define Modeling interface.

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**SECTION - B  
(Short Answer)**

**Not to exceed one paragraph, answer any eight questions. Each question carries two marks. (8x2=16 Mark)**

11. Differentiate class and object.
12. Explain structure of a class.
13. Write a note on advantages of Abstraction.
14. Differentiate OOA and OOD
15. How can we include inheritance in class diagram ? Explain.
16. Identify role of use case diagram to identify requirements of a system.
17. Differentiate use case diagram and class diagram.
18. Explain advantages of sequence diagram.
19. What are the components of collaboration diagram ?
20. Write a note on object oriented decomposition.
21. What is a component of system ?
22. Explain deployment activity.

**SECTION - C  
(Short Essay)**

**Not to exceed 120 words, answer any six questions. Each question carries four marks. (6x4=24 M)**

23. Explain disadvantages of Algorithm Decomposition Model.
24. Discuss polymorphism in detail.
25. Write a note on advantages of UML diagrams.
26. Discuss features of class diagram.

27. Explain how to identify use cases.
28. What are the elements of sequence diagram ?
29. Discuss the applications of collaboration diagram.
30. Write about state chart diagram.
31. How deployment diagram useful in delivery of system ? Explain.

**SECTION - D**  
**(Long Essay)**

Answer any two questions. Each question carries 15 marks. (2x15)

32. Explain Inheritance in detail.
  33. Write a detailed note on class diagram and use-case diagram with the support of example.
  34. Explain about System Level and Service Level diagrams.
  35. Describe activity diagram with the support of example.
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