



## GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

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Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **CO402 - Object Oriented Modeling and Design**

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Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

- 1) Solve all
  - a) Explain the following characteristics of Object oriented modeling.
    - i). class and objects. [3]
    - ii). Links and associations. [3]
  - b) What are the advantages and disadvantages of objet oriented modelling and design [6]
- 2) Solve all
  - a) Define conceptual model and explain its major elements. [6]
  - b) Define Use case and Actor. Draw and explain use case diagram for a cell phonebook. [6]
- 3) Solve any two
  - a) Define the sequence diagram. Explain the simple sequence diagram [6]
  - b) Explain the composite structures Connector and ports in UML 2.0 [6]
  - c) Explain activity diagram with one example [6]
- 4) Solve any two
  - a) Explain state chart diagram elements with state diagram for user verification. [6]
  - b)
    - i). Explain Package and package diagram [3]
    - ii). Explain Component diagram.. [3]
  - c) What are the elements of deployment diagram and show the relationships. Draw the deployment diagram for order management system. [6]
- 5) Solve any two
  - a) Draw UML diagram for library management system [6]
  - b) Describe Booch's Methodology [6]
  - c) Draw UML Diagram for Hospital management System [6]

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