



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY

Question Paper

Bachelor of Computer Application Examinations 2020

Semester - VI

Subject: BCA

Paper : 3201 OOAD using UML

Full Marks: 80

Time: 3 Hours

*Candidates are required to give their answer in their own words as far as practicable.
Questions are of equal value.*

Answer any **one question** [within 250 words] from the following.

1. Define properties and attributes of Class diagram. Explain the architecture of UML.
2. Define Object diagram and explain with example. How do you use deployment diagram.
3. Write short notes on Iterative and Waterfall model.
4. Differentiate between Attribute and Association. What are Associative classes? When it is useful to model an Association as a class?
5. What is the purpose of models in Designing? Which diagram shows the concept of inheritance? What are the challenges in designing with inheritance (single / multiple both)?
6. Briefly describe software development life cycle model (SDLC).
7. Briefly explain following characteristics and themes of Object oriented systems: Classification, Identity, Inheritance, Encapsulation, Polymorphism, Sharing, Synergy.



8. Define the purpose of the following terms with suitable example and UML notations with respect to class model:
 - (i) Qualified association
 - (ii) Association class
 - (iii) Aggregation
 - (iv) Multiplicity
 - (v) Constraint
 - (vi) Derived Data
 - (vii) Package
9. Which are the different criteria to keep the right Association in domain class model.
10. What do you mean by an event in state diagram? Discuss various types of events.
11. Explain in detail “Library” as a reuse plan.
12. Explain ‘Ordered’, ‘bags’, ‘sequences’ in class diagram with example each.