

NEW**2016****BCA****6th Semester Examination****OOAD USING UML****PAPER—3201***Full Marks : 100**Time : 3 Hours**The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.**Illustrate the answers wherever necessary.***Answer any five questions.**

1. (a) What is Use case diagram ? Draw a use case diagram for placing an order to a hotel reservation system. 3+5
- (b) Define Deployment diagram and Component diagram with example. 6
2. (a) What do you mean by advanced structural modeling ? How is it differ from basic structural modeling ? 3+5
- (b) Explain the special feature of object oriented system 'Generalization' with example. 6

(Turn Over)

3. (a) What is class diagram? Draw a class diagram for Online Banking System. 2+5
 (b) Discuss four-layer Meta Model Architecture. 7
4. Difference between : $4 \times 3 \frac{1}{2}$
 (i) State machines and State chart diagram.
 (ii) Signal and Event.
 (iii) Scenario and Use case.
 (iv) Aggregation and Association.
5. Write short note on (any four) : $4 \times 3 \frac{1}{2}$
 (i) Inheritance.
 (ii) Principles of object modeling.
 (iii) Encapsulation.
 (iv) Activity diagram.
 (v) Collaboration Diagram.
6. (a) What is Behavioural Modeling? How does it differ from Structural Modeling? 2+5
 (b) Explain in detail the role of Behavioural diagram in SDLC. 7
7. (a) What are the importance of using UML diagram? 7
 (b) What are iteration modules? Explain with example. 7

[*Internal Assessment : 30*]
