

**B.TECH SEM – VI (2007 COURSE) (INF. TECH.) : WINTER  
- 2017**

**SUBJECT: OBJECT ORIENTED MODELING & DESIGN**

Day: **Friday**

Date: **24/11/2017**

**W-2017-2523**

Time: **10.00 AM TO 01.00 PM**

Max Marks: **80**

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**N.B:**

- 1) **Q. No. 1 and Q.No.5** are **COMPULSORY**.Out of remaining attempt any **TWO** questions from each section.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Both the sections should be written in the **SEPARATE** answer books.
  - 4) Assume suitable data, if necessary.
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**SECTION-I**

- Q.1** a) What is class? Explain with the help of suitable example. **(05)**
- b) What is polymorphism? **(05)**
- c) Discuss abstract class. **(04)**
- Q.2** a) What are building blocks of UML? **(07)**
- b) What is inheritance? Explain multiple inheritance with the help of suitable example. **(06)**
- Q.3** a) Explain Booch methodology for object oriented analysis & design. **(07)**
- b) Give exhaustive notations for OMT model. **(06)**
- Q.4** Write short note on: **(13)**
- a) Specialization
- b) Generalization
- c) Aggregation

**SECTION-II**

- Q.5** a) Define state, transition & activity. **(05)**
- b) Explain different services, provided by CORBA. **(05)**
- c) What is an advance class diagram? **(04)**
- Q.6** a) Draw advance class diagram for “student information system”. **(07)**
- b) Explain modeling architectural views. **(06)**
- Q.7** a) Draw use case and state diagram for above “Air way reservation system”. **(07)**  
Using different relationship like association, generalization etc. in detail.
- b) What is the importance of component & deployment diagram? **(06)**
- Q.8** Write short notes on: **(13)**
- a) CORBA Architecture
- b) COM & DCOM
- c) Role of active X component in s/w design

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