BICSE-002

B.Tech. – VIEP – COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

□□2フ3 **December, 2018**

BICSE-002 : OBJECT ORIENTED DESIGN AND PROGRAMMING

Time : 3 hours　　　　　　　*Maximum Marks : 70*

*Note : Answer any **seven** questions. All questions carry equal marks.*

1. (a) What is object orientation ? Explain its advantages with the help of an example. 5

   (b) What is association ? Explain with the help of an example. 5

2. What is Object Modeling Technique ? Briefly explain models used by Object Modeling Technique in System Design. 10

3. (a) What is object identity ? Explain its use. 5

   (b) Draw a sequence diagram for sending an email. 5

4. What is object model ? Draw an object diagram for an online examination system. *10*

5. What is dynamic modeling ? Briefly explain the use of state diagram in dynamic modeling with the help of state diagram for online examination system. *10*

6. What is OODBMS ? Explain features of OODBMS. How are objects mapped into tables ? Explain with the help of suitable example. *10*

7. (a) What is metadata ? Explain with an example. *5*

   (b) What is functional model ? Briefly explain any two diagrams used in functional model. *5*

8. What is system architecture ? Devise an object oriented system architecture for an online banking system. *10*

9. Define the following terms with the help of examples : $4 \times 2\frac{1}{2} = 10$

   (a) Class

   (b) Reusability

   (c) Access Control

   (d) Package