

UNIT – IV

8. (a) What are boundary conditions ? How these are handled ? Discuss with suitable examples. 8
- (b) Explain reuse plan with examples. 8
9. Explain the following with examples :
- (a) System development stages. 8
- (b) Software control strategies. 8
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Roll No.

67192

**MCA 4th Semester CBCS Scheme
w.e.f. 2017-18
Examination – May, 2018**

OBJECT ORIENTED ANALYSIS AND DESIGN USING UML

Paper : 17MCA34C2

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is *compulsory*. Attempt *four* more questions selecting *one* question from each Unit.
All questions carry equal marks.

1. Answer the following questions briefly : $8 \times 2 = 16$

- (a) What is UML ?
- (b) Discuss concurrency and its uses.
- (c) Explain state diagram and its merits.

- (d) Describe class model briefly.
- (e) Explain association with an example.
- (f) Discuss Link class with an example.
- (g) What do you mean by global resources ?
- (h) What are common divisions ?

UNIT – I

- 2. (a) What is Use-Case diagram ? How is it useful and used ? Discuss with examples. 8
- (b) Discuss uses and advantages of activity diagram with an example. 8
- 3. Explain the following briefly with suitable examples :
 - (a) State chart diagram and its uses and advantages. 8
 - (b) UML semantic rules and their uses. 8

UNIT – II

- 4. (a) What is abstract class ? How is it useful and used ? Explain with suitable examples. 8
- (b) Discuss Encapsulation with an example in detail. 8
- 5. Describe the following with examples :
 - (a) Class model and its uses. 8
 - (b) Modularity and purpose of modeling. 8

UNIT – III

- 6. (a) What is use case model ? How is it used and useful ? Explain with suitable examples. 8
- (b) Discuss state modeling and its advantages with examples. 8
- 7. Explain the following with examples :
 - (a) Activity model and its uses. 8
 - (b) Relationship between class and state models. 8