(b) Explain domain state model with examples.

9. Explain the following with examples :

(a) System development stages and their applications in design

(b) Software control strategies and their advantages

Roll No. .....

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MCA 4th Semester CBCS Scheme w.e.f. 2017-18 (Re-appear) Examination – October, 2020

OBJECT ORIENTED ANALYSIS AND DESIGN USING UML

Paper : 17MCA34C2

Time : 1.45 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 : Attempt any ***three*** questions. All questions carry equal marks.

1. Answer the following questions briefly :

(a) What is activity model ?

(b) Discuss grouping and its uses.

(c) Describe state diagram and its merits.

(d) What is concurrency ?

(e) Explain association with an example.

(f) Discuss Link class with an example.

(g) Explain global resources briefly.

(h) What are common divisions ?

2. (a) What is sequence diagram ? Explain its uses and advantages with examples.

(b) Describe uses and advantages of activity diagram with an example.

3. Explain the following briefly with suitable examples :

(a) State chart diagram and its implementation in OO design

(b) UML semantic rules and their role in design

4. (a) What is modeling ? How is it useful and used ? Explain its applications with suitable examples.

(b) Explain uses and advantages of abstraction and Encapsulation with examples in detail.

5. Describe the following with examples :

(a) Class model and its uses

(b) Aggregation, multiplicity, metadata and inheritance

6. (a) What is use case model ? How is it used and useful ? Explain with suitable examples.

(b) Discuss state modeling and its advantages with examples.

7. Explain the following with examples :

(a) Activity model and its uses

(b) Relationship between class and state models

8. (a) Define boundary conditions ? How these are handled ? Discuss their role in design with suitable examples.