TIRIVAS Institute of Techniques

Seventh Semester B.E. Degree Examination, June/July 2019 Object Oriented Modeling and Design

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART - A

1	a.	What is object oriented development? List and explain object oriented themes.	(10 Marks)

b. Define the following terms with examples:

i) Links and associations

ii) Multiplicity

iii) Association end names

iv) Ordering

v) Bag and sequence

(10 Marks)

a. What is an aggregation? Explain aggregation versus associations and aggregation versus composition.
 (10 Marks)

b. Explain the following terms with an examples:

i) Meta data

ii) Derived data

iii) Reification

(06 Marks)

c. Draw the state diagram for a telephone line.

(04 Marks)

3 a. What do you mean by concurrency? Explain aggregation concurrency with a neat diagram.

(08 Marks)

b. What is an interaction model? Explain with a neat diagram sequence diagram for a online stock broker. (06 Marks)

c. Explain the following terms with examples:

i) Include relationship

ii) Extend relationship

iii) Generalization

(06 Marks)

4 a. List and explain the stages involved in software development.

b. With a neat diagram explain the architecture of ATM system.

. (10 Marks)

b. List the steps to construct a domain class model and explain them briefly.

(10 Marks)

PART - B

5 a. Explain the steps followed in constructing application interaction model. (10 Marks)

(07 Marks)

c. Name the three kinds of controls for the external event in a software system.

(03 Marks)

6 a. What is refactoring? Explain the tasks involved in design optimization. (10 Marks)

b. What are the steps involved in improving the organization of a class design? Explain them briefly. (10 Marks)

7 a. What is a pattern? Lists the properties of pattern.

(10 Marks)

b. With a neat diagram, explain the publisher-subscriber design pattern with necessary implementation steps. (10 Marks)

8 a. Explain the structure and implementation steps of view handler pattern with a neat diagram.

(10 Marks)

b. With a neat diagram explain the counted pointer idiom.

(10 Marks)

42+8 = 50, will be treated as malpractice. compulsorily draw diagonal cross lines on the remaining blank pages. Any revealing of identification, appeal to evaluator and /or equations written eg, On completing your answers, Important Note: 1.

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