.53 (CS 511) OOAD

2018

OBJECT ORIENTED ANALYSIS DESIGN

Paper: CS 511

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any ten questions.

(Each contains 4 Marks) 4×10=40

- 1. What is the relationship between abstraction, information hiding and encapsulation?
- Difference between activity diagrams, flow charts and state transition diagrams.

- 3. Name the UML diagram used for the following:
 - a. Modeling requirements
 - b. Modeling Workflows
 - c. Modeling behaviour of object
 - d. Interaction between a group of objects.
- 4. Is there any difference between the following object relationships "Football team and its player" and "General Ledger and its account"? If so how they differ?
- 5. Why object orientation is needed?
- 6. Why UML is needed?
- Differentiate static and dynamic models.
- Write the differences of Component Diagrams and Deployment Diagrams.
- Draw an online shopping web application UML deployment diagram.

- Briefly discuss the techniques used for object and class diagrams.
- 11. Draw the UML classification tree.

Answer any six questions.

(Each contains 10 Marks) 6×10=60

- Draw a system sequence diagram for generating new order.
- Draw a state transition diagram to depict the states of the CPU.
- 3. Explain the relationship between classes. Identify and show the relationships between classes in the following statement:
 "An airline company has employees. A team builds an airplane which has a number of components. An airplane lands and takes off from air script in an airport. The airplane carries passengers from source to destination. An airplane is managed by a captain and co-pilot along with his cabin crew consisting of air hostess and attendants."
- Explain about use case model for a case study of your choice.

- Compare cohesion and coupling with suitable examples.
- Define the terms: cardinality, is-a relationship, has-a relationship, uses-a relationship, generalization.
- Construct design for Library Information System which comprises the following notations:

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- a. Aggregations
- b. Compositions
- c. Associations.