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B.Tech. Examination, 2017

(Fifth Semester)

(C.S. Branch)

OBJECT ORIENTED TECHNIQUES

Paper - IV

Time Allowed : Three Hours

Maximum Marks : 100

Note : Attempt any five questions. All questions carry equal marks.

Q. 1. (a) Discuss how object oriented development methodology is different from traditional approach.

(b) What is modeling ? What are different object modeling techniques ?

Q. 2. (a) What is use case diagram ? How are use case diagrams helpful in the analysis of a system ?

(b) What is the difference between a class diagram and an instance diagram ? Discuss the significance of each.

Q. 3. Discuss the significance of sequence diagram. How the following is implemented using sequence diagrams :

P.T.O.

    (a) Broadcast message

    (b) Callback mechanism

    (c) Asynchronous messages with/without priority.

Q. 4. Explain the following with example :

    (a) Aggregation

    (b) Inheritance

    (c) Association

    (d) Persistence

Q. 5. Write in short with example :

    (a) Session beans and Entity beans

    (b) EJB

Q. 6. (a) What are exceptions ? Why are they used ? Explain with a code snippet.

    (b) Explain any six methods available in dynamic Billboard applet.

Q. 7. Write short note on :

    (a) JSD

    (b) JDBC

    (c) AWT

    (d) JAR files

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Q. 1. (a) What do you understand by object modelling ? Draw OMT object model for Hospital Information System. **10**

(b) Discuss object & class diagram with the help of suitable example. **10**

Q. 2. (a) What do you understand by Dynamic model ? Explain how events between two object are identified, with the help of an example. **10**

(b) Explain the relationship between Object & Dynamic model with the help of example. **10**

Q. 3. (a) What do you mean by DFD ? Example its components & different levels with examples. **10**

P.T.O.

(b) Discuss the basic architecture of UML.   10

Q. 4.   (a) What is Jackson Structured Development Methodology ? Compare it with structured Analysis / Structured Design Technique.   10

(b) What do you understand by scenarios & events traces ? Write down scenario for the following activity :   10

(i) Telephone line for a call.

Q. 5.   (a) Write a program in Java to check whether a string is Palindrome or not.   10

(b) What is constructor ? Write different type of constructor.   10

Q. 6.   (a) Write a program in Java to calculate the length of a string.   10

(b) What is package ? Explain the usage of Java packages.   10

Q. 7.   Write short notes on any four :   5×4=20

(i) Features of object oriented programming

(ii) Component Diagram

(iii) Interface

(iv) Primitive data types in Java

(v) Activity Diagram

(vi) Aggregation & Generalization

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B. Tech. Examination, 2015
(Fifth Semester)
(C.S. Branch)

OBJECT ORIENTED TECHNIQUES
Paper-IV

Time Allowed : Three Hours

Maximum Marks : 100

Note : Attempt any five questions. All questions carry equal marks.

Q. 1. (a) What are the main characteristics of object-oriented programming. Explain in brief.

(b) What are the basic architecture of UML.

Q. 2. (a) Discuss class and object diagram. What are the common modeling techniques for class and object diagrams.

(b) Discuss in brief different types of Behavioral diagrams.

Q. 3. (a) Define Deployment diagram. Draw the deployment diagram of an Order Management System.

(b) What do you know about object design ? What are the steps object design ?

Q. 4. Reusability and extensibility are two important styles of good object-oriented programming. Discuss them in detail with their guidelines.

Q. 5. How do you map the object-oriented concepts using non-object oriented languages. Explain with an example.

Q. 6. What is a package ? Explain the usage of Java packages. Also define user-defined package and Built-in package.

Q. 7. Write short notes on any four : $5 \times 4 = 20$

(i) Object identity

(ii) Activity diagrams

(iii) Structured analysis and structured design (SA/SD)

(iv) Abstraction

(v) Interface

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