

ii. Nested state diagrams

of OMT?

3. Attempt any two parts from the following:

a, What is Object Modeling Technique (OMT)? What are the various phases

b. What is Data Flow Diagram (DFD)? What are the main parts of the

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DFD? Draw a DFD for a library management system.

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 c. Compare Structured analysis(SA)/structured design(SD) and Jackson structured development (JSD) methodologies.

4. Attempt any two parts from the following:

[2 x 10]

- a. What are the various data types in java? Explain the life cycle of applet.
- What is thread in Java? Differentiate between the thread and process using java code. Briefly explain the multithreading.
- c. Explain string handling and AWT controls.

5. Attempt any two parts from the following:

[2 x 10]

- a. What are Java Beans? Discuss the life cycle of java servlets using diagram.
- b. Explain the functioning of upper layer E-mail and their applications?
- c. Write short note on the followings (any two):
 - i. JDBC
 - ii. Dynamic billboard applet
 - iii. Java Swing