13427 : Integrative Programming : 2 NMEF 1

P. Pages : 2

Time : Three Hours

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AW - 3748

Max. Marks : 80

Notes : 1. Illustrate your answer necessary with the help of neat sketches.
2. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Explain the model-view-controller Design Pattern. 7

   b) What is object cloning? How to make object cloneable. 6

OR

2. a) Explain the role of Finalizer. Explain how to define a finalize method and what type of access specifiers can be used with finalizers. 7

   b) Define: 6
      i) Persistent objects
      ii) Cloning objects
      iii) Nested classes

3. a) Explain how sum can be used to schedule task. 7

   b) Explain what is synchronization? What is the need of it. 7

OR

4. a) Give and explain the state transition diagram of a thread. Describe the method of a thread class that are used for transition from are state to another. 7

   b) Explain with suitable examples, under what situations it is better. 7
      i) To use of a thread or a process.
      ii) To synchronize thread or not to synchronize.

5. a) Explain in detail the result set object and its types. 7

   b) Explain- 6
      i) Connection Pool
      ii) Two-phase commit
      iii) Type-2 JDBC Driver for RDBMS system

OR

6. a) Differentiate between: 6
      i) Server socket and client socket.
      ii) Listening method and communication mode.

   b) Explain various transaction isolation levels in the connection class. 7

| 7. | a) | Explain why it is necessary to parse XML document. Explain briefly the important features of DOM parser and SAX parser. | 7 |
| | b) | State and explain rules for writing XML. | 6 |

<p style="text-align:center">OR</p>

8.	a)	Explain with an example how the components are referenced using Namespace.	7
	b)	Compare validating XML documents using DTD and XML schema.	6
9.	a)	Explain the symmetric and Asymmetric cryptographic systems.	7
	b)	Explain the TCP/IP sockets and Datagram Sockets.	6

<p style="text-align:center">OR</p>

10.	a)	Differentiate between.	6
		i) Socket and Port	
		ii) Listening mode and communication mode	
		iii) Server Socket and Client Socket	
	b)	Explain the Secure Socket-Layer Handshake.	7
11.	a)	Explain the following.	7
		a) JSP as HTML or XHTML document.	
		b) JSP as XML Document	
	b)	Explain in detail the relationship between server and application server.	7

<p style="text-align:center">OR</p>

| 12. | a) | Explain with a neat diagram how a web app. Process HTTP requests. | 7 |
| | b) | Enumerated and explain the purpose of at least five classes and two interfaces related to generic servlet implementation. | 7 |

<p style="text-align:center">***************</p>