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CS/B.TECH(CSE)/SEP.SUPPLE/SEM-8/CS-802E/2012	

2012

ADVANCED JAVA PROGRAMMING

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

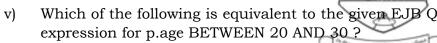
Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

- (Multiple Choice Type Questions) 1. Choose the correct alternatives for the following: $10 \times 1 = 10$ What is the full form of Java IDL? Internet Definition Language b) Internal Domain Language Intranet Definition Language Internal Definition Language. In MVC architecture, 'view' component are basically ii) **JSPs** HTML b) a) Java Beans. c) EJB d)
 - Which of the following is an Application Programming iii) Interface?
 - JNDI a) b) LDAP RMI d) JNI. c)
 - Which of the following tools is used to generate the stubs and skeletons for a remote service?
 - java rmiregistry a) d) rmic. c) javac

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- a) p.age \geq 20 AND p.age \leq 30
- b) p.age > 20 AND p.age < 30
- c) p.age > 20 AND p.age \leq 30
- d) p.age \geq 20 AND p.age < 30.
- vi) Which of the following best defines lazy loading of beans?
 - a) Container loads every bean at start
 - b) Whole bean is loaded late
 - c) Only starts loading on first call of getter methods
 - d) None of these.
- vii) Which is/are true for XML?
 - a) It is user definable tag
 - b) It is content driven
 - c) Both (a) and (b)
 - d) None of these.
- viii) Which of the following packaging options of enterprise beans are recommended for most applications?
 - Package all enterprise beans for an application in one EJB module
 - b) Package all related enterprise beans for an application in one EJB module
 - c) Package each enterprise bean for an application in its own EJB module
 - d) None of these.
- ix) In webservice terminology SOAP stands for
 - a) Simple Object Access Protocol
 - b) Simple Object Access Procedure
 - c) Standard Object Access Protocol
 - d) none of these.
- x) Which of the following should not be used to share data between servlets in a distributed web application?
 - a) Attributes of http Session
 - b) Database
 - c) Attributes of Servlet Context
 - d) Enterprise JavaBeans.

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GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

- 2. a) What is a proxy server? What is a Firewall?
 - b) How is security achieved in Java?

2 + 3

- 3. a) What are the components of J2EE application?
 - b) What is a thin client?
 - c) According to you, are Java Beans J2EE components?
 Briefly discuss. 2 + 1 + 2
- 4. a) What is MVC? Briefly discuss the reasons why it is used.
 - b) What are the implicit objects in JSP? Give examples.

3 + 2

- 5. a) What is XML? How does it differ from HTML?
 - b) Compare static webpage and dynamic webpage. 2 + 3
- 6. What do you mean by DTD and XSD ? Provide suitable examples.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- 7. a) Explain Life Cycle of JSP.
 - b) What happens when a browser is requesting for a Servlet program?
 - c) Explain JSP plug-in feature with an example. 5 + 5 + 5
- 8. a) What are the different components of EJB ? Discuss with examples.
 - b) Compare JSP and ASP.
 - c) Where do we use prepared statement and callable statement?
 - d) Explain Session handling mechanism of Servlet.

6 + 3 + 3 + 3

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9. a) Create an XML document that describes your details in the following hierarchy:

ID:

Name:

Firstname

Lastname

Age: Years

Months

Department:

Phoneno:

Country code

Area code

Phone

- b) Write an XSL to display the details of the above XML document.
- c) Distinguish between SAX and DOM parsing. 6 + 6 + 3
- 10. a) Describe RMI Layered architecture.
 - b) What role does JNDI play in J2EE?
 - c) With the help of an example, explain an LDAP Tree structure. Show how a particular data may be accessed from it. 5 + 4 + 6
- 11. a) What do you mean by Elements, Template data, Actions in a JSP page?
 - b) What is the difference between Web Server and Application Server?
 - c) Explain JDBC connectivity with an example. 6 + 3 + 6

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