	Utech
Name:	
Roll No.:	To Among Will consider and Excited
Invigilator's Signature :	

# 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 × 1 = 10
  i) What is the full form of Java IDL?
  - a) Internet Definition Languageb) Internal Domain Language
  - c) Intranet Definition Language
  - d) Internal Definition Language.
  - ii) In MVC architecture, 'view' component are basically
    - a) HTML

b) JSPs

c) EJB

- d) Java Beans.
- iii) Which of the following is an Application Programming Interface?
  - a) JNDI

b) LDAP

c) RMI

- d) JNI.
- iv) Which of the following tools is used to generate the stubs and skeletons for a remote service?
  - a) java

b) rmiregistry

c) javac

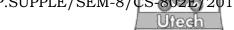
d) rmic.

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- v) Which of the following is equivalent to the given EJB QI expression for p.age BETWEEN 20 AND 30 ?
  - 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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