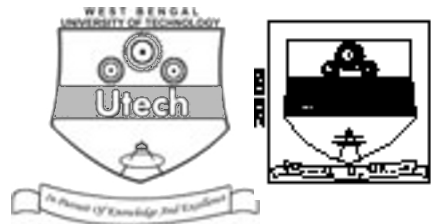


CS/B.TECH (CSE) (SUPPLE)/SEM-8/CS-802E/09
ADVANCED JAVA PROGRAMMING (SEMESTER - 8)



1.
Signature of Invigilator

2.
Signature of the Officer-in-Charge

Reg. No.

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Roll No. of the
Candidate

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CS/B.TECH (CSE) (SUPPLE)/SEM-8/CS-802E/09
ENGINEERING & MANAGEMENT EXAMINATIONS, JULY – 2009
ADVANCED JAVA PROGRAMMING (SEMESTER - 8)

Time : 3 Hours]

[Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
2. a) In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
b) For **Groups – B & C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
4. Read the instructions given inside carefully before answering.
5. You should not forget to write the corresponding question numbers while answering.
6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
9. Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

FOR OFFICE USE / EVALUATION ONLY

Marks Obtained

	Group – A										Group – B					Group – C					Total Marks	Examiner's Signature
Question Number																						
Marks Obtained																						

.....
Head-Examiner/Co-Ordinator/Scrutineer

S-53030 (29/07)



**DO NOT WRITE
ON THIS PAGE**



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GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following :

10 × 1 = 10

i) What does XSL stand for ?

- a) eXtensible Stylesheet Language
- b) eXtensible Style Listing
- c) eXtra Style Language
- d) eXpandable Style Language.

ii) There is a way of describing XML data, how ?

- a) XML uses a description node to describe data
- b) XML uses a DTD to describe the data
- c) XML uses XSL to describe data
- d) XML uses XQL to describe data.

iii) PreparedStatement object is similar to

- a) Connection object
- b) Statement object
- c) ResultSet object
- d) String object.



iv) ACID, the acronym for the four properties guaranteed by transactions, is

- a) Atomic, Control, Information and Duration
- b) Autonomy, Central, Information and Duration
- c) Atomicity, Consistency, Isolation and Durability
- d) Action, Continuous, Isolation and Durability.



v) A J2EE component is a self-contained

- a) functional hardware
- b) functional model
- c) model
- d) functional software.

vi) An enterprise bean is a

- a) Server-side component
- b) Client-side component
- c) Model View Controller
- d) Mapping element.

vii) XML element is referred to as

- a) a root
- b) tag
- c) node
- d) branch.

viii) For J2EE configuration,

- a) netbeans is required
- b) tomcat is required
- c) j2sdk is required
- d) JAVA_CLIENT is required.

ix) XML is standardized by

- a) W3C
- b) SUN Micro System
- c) Apache Software Foundation
- d) IBM.

x) Entity Beans represent persistent data in

- a) a database table
- b) EJB application
- c) a Bean JAR
- d) Client Machine.

**GROUP – B****(Short Answer Type Questions)**Answer any *three* of the following.

3 × 5 = 15

2. Explain MVC architecture relating to J2EE with figure.
3. Depending upon the 'client interaction', there are two types of 'Session Bean'. What are those ? When Session Bean can be used ? When EJB application needs 'Message-Driven Beans' ?
4. What are J2EE components and services ?
5. Why Session Management is necessary in a Client-Server Application ? How can you create a Session in Servlet ?
6. J2EE Supports 'Distributed Transaction'. Explain with example.

GROUP – C**(Long Answer Type Questions)**Answer any *three* of the following.

3 × 15 = 45

7. State the advantages of 'distributed transactional applications' over general applications'. What are the roles performed by different components available in the 'j2ee' web tier ? Name the different tiers in 'j2ee architecture' with a clear sketch of 'j2ee architecture'.
8. What are ear, war and jar files ? What are J2EE Deployment Descriptors ?
9. What advantage does a Java servlet have over a traditional CGI program ? Explain the different stages of a servlet life cycle. Discuss the JSP Life Cycle with a diagram.
10. Mention different kinds of EJB. Draw the differences between a Web server and an application server. Explain the use of 'java classpath'.



3 × 5

11. Write short notes on any *three* the following :

- a) RMI
- b) JDO
- c) Client-Server Application
- d) JDBC.



END