

Lib

MCA - SEM IV (CBUS)

10/5/16

Core & Advanced Java

QP Code : 26707

(3 Hours)

[Total Marks : 80

N.B. : (1) Question No. 1 is compulsory.  
(2) Attempt any four questions out of the remaining Q.2 to Q.7.

1. Attempt any four.
  - (a) Describe abstract classes in JAVA.
  - (b) Differentiate between Struts 1.x versus Struts 2.x
  - (c) Explain features of JAVA language.
  - (d) Explain JSP Implicit objects.
  - (e) Differentiate between C++ and JAVA
  
2. (a) What is constructor? Explain the types of constructor. 8  
(b) What is XML? Explain structure of XML DTD. 7
  
3. (a) Explain thread life cycle with neat labeled diagram. Write a program to demonstrate the thread life cycle. 8  
(b) What is EJB? Explain the types of Bean. 7
  
4. (a) Explain Object Serialization and deserialization with suitable example. 8  
(b) Explain event delegation model. Explain any two event listeners. 7
  
5. (a) What is Servlet? Explain the servlet life cycle. 8  
(b) Describe the steps involved in a JAVA program in order to get connectivity to a database. Write a JAVA program to display all the value from the student database. 7
  
6. (a) What is package? Write a program to create emp package which includes Employee Class having following members: data fields such as EmpID, EmpName, DOJ, Designation, Basic\_salary, Address and methods such as getData(), display(). And define a class Salary which extends Employee class of emp package and import emp package and calculate the salary of employee and display along with employee details. 8  
(b) What is exception? Explain Steps to create your own exception with a suitable example. 7
  
7. (a) What is Cookie? Write a simple servlet program to design to page visit counter using cookie. 8  
(b) What is Struts? Explain Struts architecture. 7

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