ENGINEERING & MANAGEMENT EXAMINATIONS, APRIL - 2009
ADVANCED JAVA PROGRAMMING
SEMESTER - 8

Time : 3 Hours]   [Full Marks : 70

GROUP – A
(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following :   10 × 1 = 10

i) SXLT is developed by

   a) www   b) w3c

   c) ECMA   d) IBM.

ii) Which of the following protocols are stateless in nature ?

   a) HTTP   b) FTP

   c) UUCP   d) TCP.

iii) What is the full form of IDL ?

   a) Internet Definition Language   b) Internet Domain Language

   c) Intranet Definition Language   d) Intranet Domain Language.

iv) Which type of JDBC driver can be dynamically downloaded to the client ?

   a) Type1   b) Type2

   c) Type3   d) Type4.

v) DCOM is equivalent to

     a)   EJB   b)   RMI

     c)   JSP   d)   HTML.

vi) Output of dynamic webpage is

     a)   applet   b)   html

     c)   http   d)   activex control.

vii) Each CGI request .... process.

     a)   always uses the existing   b)   may or may not create a new

     c)   always creates a new   d)   none of these.

viii) SAX stands for

     a)   Simple Access for XML   b)   Single Access for XML

     c)   Simple API for XML   d)   None of these.

ix) A .... is used by an XML-enabled browser to transform an XML documen into HTML document so that the content can be displayed by the browser.

     a)   XSD   b)   XSLT

     c)   DTD   d)   None of these.

x) In webservice terminology SOAP stands for

     a)   Simple Object Access Procedure

     b)   Standard Object Access Procedure

     c)   Simple Object Access Protocol

     d)   None of these.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following.   3 × 5 = 15

2. Compare 3-tire, n-tire and enterprise architectures.

3. List the advantages of MVC design pattern.

4. State and explain the following with proper Java code :   2 + 2 + 1

    a)   GenericServlet

    b)   HTTPServlet

    c)   service.

5. What is CORBA ? Explain Corba Component Model (CCM).   1 + 4

6. Explain LDAP tree structure with a suitable example.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.   3 × 15 = 45

7.   a)   What is the difference between Servlets and CGI ?

    b)   What is Servlets API ? Describe the Life cycle of Servlets.

    c)   What is Servlets container ? What role does it play ? Briefly define different containers available in Servlets.   3 + 2 + 5 + 5

8.   a)   What are the differences between RMI and CORBA ?

    b)   Explain RMI architecture with suitable diagram.

    c)   What are the differences between EJB and Java Beans ?   3 + 7 + 5

9.   a)   Describe JSP life cycle.

     b)   What is the difference between page 'forward' and 'include' in JSP ?

     c)   State the difference between ASP and JSP.

     d)   Differentiate between scriplets and declarations in a JSP page.   4 + 4 + 4 + 3

10.   a)   What is EIS ? What are the benefits of JINI ?

     b)   What are the benefits of using JDO ?

     c)   What are the differences between JDO and CMP ?   (3 + 4) + 4

11.   a)   What is XML ? How does it differ from HTML ?

     b)   Briefly define the architecture of XML with a neat sketch diagram.

     c)   What is the advantage of XML ? Describe the XML schema in brief.

                                    2 + 2 + 5 + 3 + 3

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END