Total number of printed pages – 6

MCA

PCS 5010

Fifth Semester Examination – 2008

ENTERPRISE WEB-BASED COMPUTING WITH JAVA

Full Marks – 70

Time : 3 Hours

Answer Question No. **1** which is compulsory
and any **five** from the rest.

The figures in the right-hand margin
indicate marks.

1. Answer the following questions : 2×10

(a) What are the different kinds of enterprise beans ?

(b) What is the difference between HttpServlet and GenericServlet ?

P.T.O.

(c) What is the role of <hr>tag ? What are the various attributes it can take ?

(d) What is the use of the <a> tag ? How would you navigate between multiple pages ?

(e) What is the difference between Servlet-Context and ServletConfig ?

(f) What does the <TITLE> tag do and where does it go ? What's the standard skeleton for an HTML document ?

(g) What are JavaScript types ?

(h) Suppose server object not loaded into the memory and the client request for it. What will happen ?

(i) What is the difference between RMI registry and OS Agent ?

(j) What are the difference between RMI and Servlets ?

2. (a) What is Applet ? How will you call an Applet using Java Script Function ? How can you push data from an Applet to a Servlet ?   5

(b) Write JavaScript statements that will :

(i) ask the user to enter a name ;

(ii) get input from the user ; and

(iii) store it in the variable named myName.   5

3. (a) What is MVC architecture ? Discuss the benefits of MVC architecture in application design in the context of *designing patterns*.   5

(b) What is RMI ? Explain about RMI Architecture. How will you pass parameters in RMI ?   5

4. (a) What are the requirements to run the application based on Java Servlet ? Explain the life cycle methods of a Servlet. 5

   (b) What is CGI and how does it work ? What is the major difference between servlet and CGI ? 5

5. (a) What is JDBC ? Explain using a Java program how connect can be made to a database using Java database connectivity (JDBC). 5

   (b) Can you place objects like checkboxes, textboxes on the form without using the form tag ? What is the significance of the form tag ? Discuss. 5

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6. (a) What is an EJB object ? What is a EJB architecture ? Discuss the overview of EJB software architecture. 5

   (b) What is a Scriptlet ? Explain the life-cycle methods in JSP. 5

7. (a) What are CGI scripts ? How you will ensure that the CGI-Script obtains correct values submitted in the web page ? 5

   (b) What is a database URL ? Discuss the process to connect a database from the Servlet. 5

8. (a) What is need of JDBC drivers ? What are the four type of drivers in Java ? 2.5

   (b) What is Servlet Context ? What is preinitialization of a Servlet ? 2.5

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(c) What does JDBC do ? What are the different components at various levels ?

2.5

(d) Highlight the main differences between static and dynamic HTML.

2.5

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