

(g) What is the tag used for inserting a picture in HTML? ✓

(h) What is the difference between byte code and native code? ✓

(i) Explain the difference (s) between Java and Java Applets. ✓

(j) Write the HTML syntax to create radio button and check boxes? ✓

2. (a) Write a Java Script Program which checks the date format in *dd-mm-yyyy*. The user enters the date of birth in a text box and the Java Script verifies whether the user has entered the date in correct format and gives an alert if the format is not correct. ✓ 5

(b) List three advantages of *servlet* over *CGI Programs*. Despite these advantages, CGI is still widely used. Give at least one reason why this is so. ✓ 5

3. (a) What is the need of scripting language? Compare client side scripting language with the server side scripting language? ✓ 5

(b) What are the main differences between static and dynamic HTML? Write a short piece of HTML that would be used to embed a video file into a web page. 5

4. (a) What are Servlet? What are the advantages of Servlets over CGI? Explain the Life Cycle of Servlet? ✓ 5

(b) What does JDBC do? What are the different components at various levels? ✓ 5

5. (a) The term "dynamic HTML" is widely used, but appears to lack an agreed definition. Explain what you understand by the term and evaluate the dynamic HTML technologies you identify in terms of the context in which they can be used. 5

(b) Write Java Script statements that will: (i) ask the user to enter a number; (ii) get input from the user; (iii) convert the input to an Integer typed value; and (iv) store it in the variable named *my Number*. 5

- ✓6. (a) Write an employee class in which pay () is a method which calculates the gross pay from the basic pay. Write an application, which run this method remotely using RMI. 5
- (b) What do you mean by EJB ? What are the different types of EJB ? 5
- ✓7. (a) Explain the principles of Remote Method Invocation with Block diagram. What are stub and skeletons ? 5
- (b) What is JDBC ? What are the different JDB drivers available ? A There are mainly four types for JDBC drivers available. 5
- ✓8. (a) What is the purpose of Java naming and directory interfaces (JNDI) ? What protocols does JNDI provides for interfacing ? What are the typical uses within a J2EE application ? 5
- (b) What is Java Authentication and Authorization Services (JAAS) ? What is a Portlet ? Explain its capabilities, Explain Portal architecture ? 5

A A 11

EWBCJ

Full Marks : 70

Time : 3 hours

Answer any six questions including Q. No. 1

The figures in the right-hand margin indicate marks

- 1. Answer the following questions : 2 x 10
 - (a) What is the difference between a field and a local variable in Java ?
 - (b) How to use the caches to make CGI scripts faster and more Net-friendly ?
 - (c) What is meant web page ? Mention different types of websites.
 - (d) What are the different ways to send from outputs to server ?
 - (e) When should you use Java Script instead of Java Programming Language and Why ?
 - (f) What is MVC architecture ?