**Pre Board Examination Model Questions**

**Subject: Web Technology**

**BIT Third Semester**

**MCQ (Multiple Choice answer Question) (30X1=30)**

Q1. Expansion of FTP is

1. Fine Transfer Protocol
2. **File Transfer Protocol**
3. First Transfer Protocol
4. None of the mentioned

Q2. Which of the following functions are done by a web server?

1. Accept requests from a web browser
2. Sends back results in HTML
3. Executes programs with arguments supplied by the user
4. **All of the mentioned**

Q3. HTML is considered as \_\_\_\_\_\_\_\_\_ language.

1. Higher Level Language
2. **Markup Language**
3. OOP Language
4. Programming Language

Q4. A webpage displays a picture. What tag was used to display that picture?

1. picture
2. image
3. **img**
4. src

Q5.Which attribute is used to name an element uniquely?

1. class
2. **id**
3. dot
4. all of above

Q6. Which of these tags are all **<table>** tags?

1. <table><head><tfoot>
2. **<table><tr><td>**
3. <table><tr><tt>
4. <thead><body><tr>

Q7. Which CSS property is used to control the text size of an element ?

1. font-style
2. text-size
3. **font-size**
4. text-style

Q8. We can declare all type of variables in JavaScript with the keyword \_\_\_\_\_\_\_\_\_\_\_\_\_.

1. **var**
2. obj
3. jvar
4. None of these

Q9. Which of the following is not a comparison operator ?

1. **++**
2. <=
3. >=
4. ==

Q10. Which of the following is the correct syntax to display "BIT" in an alert box using JavaScript?

1. alertbox("BIT");
2. msg("BIT");
3. msgbox("BIT");
4. **alert("BIT");**

Q11. The statement a===b refers to \_\_\_\_\_\_\_\_\_

1. Both a and b are equal in value, type and reference address
2. Both a and b are equal in value
3. **Both a and b are equal in value and type**
4. There is no such statement

Q12. Which method is called only once during the run time of your applet?

1. stop()
2. paint()
3. **init()**
4. destroy()

Q13. Which is invoked after the init() method or browser is maximized?

1. **public void start()**
2. public void paint(Graphics g)
3. Public void stop()
4. Public void init()

Q14. In the following statements which is a drawback for Applet?

1. It works at client side so less response time
2. Secured
3. It can be executed by browsers running under many platforms, including Linux, Windows, and Mac Os etc.
4. **Plugin is required at client browser to execute applet**

Q15. Which of the following depicts correct order of phases in JSP life cycle?

1. **Compilation, Initialization, Execution, Cleanup**
2. Initialization, Compilation, Cleanup, Execution
3. Initialization, Cleanup, Compilation, Execution
4. Cleanup, Compilation, Initialization, Execution

Q16. In the following which packages does a JSP API consists of?

1. javax.servlet.jsp
2. java.servlet
3. javax.servlet.jsp.tagext
4. **Both a & c**

Q17. In the following statements identify the disadvantages of CGI?

1. If number of clients increases, it takes more time for sending response
2. For each request, it starts a process and Web server is limited to start processes
3. It uses platform dependent language e.g. C, C++, perl
4. **All mentioned above**

Q18. Which cookie it is valid for single session only; it is removed each time when user closes the browser?

1. Persistent cookie
2. **Non-persistent cookie**
3. Both A & B
4. None of the above

Q19.These methods doGet(),doPost(),doHead,doDelete(),deTrace() are used in?

1. Genereic Servlets
2. **HttpServlets**
3. Both A & B
4. None of the above

Q20. Which are the session tracking techniques?

i. URL rewriting

ii. Using session object

iii.Using response object

iv. Using hidden fields

v. Using cookies

vi. Using servlet object

1. i, ii, iii, vi
2. **i, ii, iv, v**
3. i, vi, iii, v
4. i, ii, iii, v

Q21. Which of the following is advantage of using PreparedStatement in Java?

1. Slow performance
2. Encourages SQL injection
3. **Prevents SQL injection**
4. More memory usage

Q22. Which of the following step establishes a connection with a database?

1. Import packages containing the JDBC classes needed for database programming.
2. Register the JDBC driver, so that you can open a communications channel with the database.
3. **Open a connection using the DriverManager.getConnection () method.**
4. Execute a query using an object of type Statement.

Q23. Which of the following condition is required for deadlock to be possible?

1. mutual exclusion
2. a process may hold allocated resources while awaiting assignment of other resources
3. no resource can be forcibly removed from a process holding it
4. **all of the mentioned**

Q24. XML is much more similar like \_\_\_\_\_\_\_\_\_\_.

1. **HTML**
2. CSS
3. C Programming
4. JavaScript

Q25. DTD Stands for \_\_\_\_\_\_\_\_\_.

1. Document Transport Direction
2. Document Transcript Definition
3. **Document Type Definition**
4. None of these

Q26. Which of the following is true about XML?

1. XML is technology independent. It can be used by any technology for data storage and transmission purpose.
2. XML uses simple text format. It is human readable and understandable.
3. Using XSD, DTD and XML structure can be validated easily.
4. **All of the above.**

Q27. When to use a DOM Parser?

1. You need to know a lot about the structure of a document.
2. You need to move parts of the document around.
3. You need to use the information in the document more than once.
4. **All of the above.**

Q28. XML is designed to store data and?

1. Design
2. Verify
3. **Transport**
4. Both a & b

Q29. In which type of EJB it encapsulates the state that can be persisted in the database,it is deprecated,Now, it is replaced with JPA (Java Persistence API)?

1. **Entity Bean**
2. Message Driven Bean
3. Session Bean
4. None of the above

Q30. In RMI Architecture which layer Intercepts method calls made by the client/redirects these calls to a remote RMI service?

1. **Stub & Skeleton Layer**
2. Application Layer
3. Remote Reference Layer
4. Transport Layer

**Short Answer Questions (Attempt any Six Questions) (6X5 = 30)**

1. Discuss 3-tier technology with suitable example.
2. What is HTML? Explain lists tag with Example.
3. What is CSS? What is the order of precedence for CSS?
4. What do you mean by active web page? Write an applet program to draw a rectangle.
5. What is difference between GenericServlet and HttpServlet?
6. What are the JDBC API components?
7. How do you define XML DTD? Explain the ways to define DTD in XML with suitable example
8. What is the use of RMI? Explain the architecture of RMI Application.

**Long Answer Questions (Attempt any Two Questions but question number 1 is compulsory) (2X20 = 40)**

1. Write HTML code to accept input from a user for flight reservation system (The input elements are Departure Date, Return Date, From and To Destinations, Nationality, First Name, Last Name, Gender, Contact Number) and validate them using JavaScript so that no any fields are empty.
   1. What is JSP and why do we need it?
   2. What are JSP lifecycle methods?
   3. What are the advantages of JSP over servlet?
   4. Differentiate between Javabeans and Enterprise Java Beans.
   5. Explain the directory implementation algorithm: Linear List.
   6. Differentiate between prepared and callable statement.
   7. What is deadlock and its prevention techniques?