Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Engineering End Sem Examination Dec-2023

CS3EW04 Internet & Web Technology

Programme: B.Tech. Branch/Specialisation: CSE / All

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Which HTTP method is used for retrieving data from a server without causing any side effects?
 - (a) GET
- (b) POST

- (d) DELETE
- ii. What is the primary purpose of SMTP in the context of email 1 communication?

(c) PUT

- (a) Receiving emails from the server
- (b) Sending and relaying outgoing emails
- (c) Storing emails on the email server
- (d) Retrieving emails from the server
- iii. Which of the following is the correct way to comment out multiple 1 lines of HTML code?
 - (a) <!-- This is a comment -->
 - (b) /* This is a comment */
 - (c) // This is a comment //
 - (d) -- This is a comment --
- iv. What is the DOM used for in web development?
 - (a) Defining the structure of an HTML document.
 - (b) Styling web pages with CSS.
 - (c) Manipulating and interacting with web page elements.
 - (d) Managing web server configurations.
- v. What is the root element in an XML document?
 - (a) <data>
- (b) <element>
- (c) <root>
- (d) < xml >

1

[2]

| | vi. | What does XML stand for? | | | 1 | |
|-----|-------|--|-------------------|-------------------------|---|--|
| | | (a) eXtra Modern Language | | | | |
| | | (b) eXtensible Markup Langua | ige | | | |
| | | (c) eXperimental Markup Lang | guage | | | |
| | | (d) eXtreme Markup Language | 2 | | | |
| | vii. | Which symbol is used to denot | te a variable in | n PHP? | 1 | |
| | | (a) # (b) \$ | (c) @ | (d) & | | |
| | viii. | What is a Servlet in the contex | t of Java web | development? | 1 | |
| | | (a) A type of JavaScript. | | | | |
| | | (b) A server-side Java programweb server. | m that extend | s the capabilities of a | | |
| | | (c) A type of database manage | ement system. | | | |
| | | (d) A front-end web framework. | | | | |
| | ix. | In JSP, which tags are used to | | de within a JSP page? | 1 | |
| | | · · | (b) <java></java> | 1.0 | | |
| | | . , | (d) [] | | | |
| | х. | In JSP, what is the purpose of | , , = = | object? | 1 | |
| | | (a) To store information that | | = | | |
| | | HTTP request-response cy | | | | |
| | | (b) To store information that is | | bally to all users. | | |
| | | (c) To manage database conne | ections | • | | |
| | | (d) To define custom JSP tags. | | | | |
| Q.2 | i. | Explain Architecture of WWW | in detail. | | 4 | |
| | ii. | Why HTTP is called state less | protocol? Enli | ist various methods for | 6 | |
| | | state management and also give | ve advantages | and disadvantages of | | |
| | | each method. | | | | |
| OR | iii. | With a neat block diagram exp | lain the TCP/ | IP reference model. | 6 | |
| Q.3 | i. | Explain about Cascading Style | Sheets with a | nn example. | 4 | |
| | ii. | Define Frameset, Frame Tag. 1 | | = | 6 | |
| | | parts each individual part displ | ays different | web page. | | |
| OR | iii. | Build a JavaScript program to Fahrenheit and vice versa. | convert tempe | erature from Celsius to | 6 | |
| | | Tanomica and vice versu. | | | | |
| Q.4 | i. | Define XML? What are the ad- | vantages of X | ML. | 4 | |

| | ii. | Explain XSL and XSLT in detail with example. | 6 |
|-----|------|---|---|
| OR | iii. | Explain the procedure for validating the XML Documents. | 6 |
| Q.5 | i. | Explain the predefined and user defined functions in PHP with an example. | 4 |
| | ii. | Explain database connectivity in PHP with reference to MYSQL. | 6 |
| OR | iii. | Explain about Lifecycle of a Servlet with neat diagram. | 6 |
| Q.6 | | Attempt any two: | |
| | i. | Explain about the different methods used for Session tracking. | 5 |
| | ii. | With suitable examples explain the different looping statements | 5 |

[3]

Explain about the JSP directive Elements. Explain each of them in 5

used in JSP programs.

detail.

[4]

Marking Scheme Internet & Web Technology-CS3EW04(T)

| Q.1 | i) | a) GET | | 1 |
|-----|-------|--|-------------------------|---|
| | ii) | b) Sending and relaying outgoing emails | | 1 |
| | iii) | a) This is a comment | | 1 |
| | iv) | c) Manipulating and interacting with web pa | ge elements. | 1 |
| | v) | d) <xml></xml> | | 1 |
| | vi) | b) eXtensible Markup Language | | 1 |
| | vii) | b) \$ | | 1 |
| | viii) | b) A server-side Java program that extends th | e capabilities of a web | 1 |
| | ix) | server. c) <% %> | | 1 |
| | x) | a) To store information that is available only request-response cycle. | during a single HTTP | 1 |
| Q.2 | i. | Explain Diagram | 2 Marks 2 Marks | 4 |
| | ii. | HTTP is called state less protocol Enlist method. | 3 Marks 3 Marks | 6 |
| OR | iii. | With a neat block diagram | 3 Marks | 6 |
| | | explain the TCP/IP reference model. | 3 Marks | |
| Q.3 | i. | Explain | 2 Marks 2 Marks | 4 |
| | ii. | Diagram Define Frameset, Frame Tag. | 2 Marks 3 Marks | 6 |
| | | Divide the web pageweb page. | 3 Marks | |
| OR | iii. | Build a JavaScript program vice versa. | (As per explanation) | 6 |

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