



B.E/B.TECH DEGREE EXAMINATIONS: APRIL /MAY 2024

(Regulation 2018)

Sixth Semester

INFORMATION TECHNOLOGY

U18ITI6203 : Web Technology

COURSE OUTCOMES

- CO1:** Understand and build dynamic and interactive web sites
- CO2:** Interpret the role of XML and AJAX in web applications
- CO3:** Develop applications using PHP and MySQL
- CO4:** Develop interactive web applications using Node js and MongoDB
- CO5:** Make use Java based technologies (JSP and Servlet) to develop applications.
- CO6:** Develop Rest based web services

Time: Three Hours

Maximum Marks: 100

**Answer all the Questions:-
PART A (10 x 2 = 20 Marks)
(Answer not more than 40 words)**

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|--|-----------------------|
| 1. List out the advantages of HTML. | CO1 [K ₁] |
| 2. Define DOM. | CO1 [K ₁] |
| 3. Compare HTML and XML. | CO2 [K ₂] |
| 4. List out the features of AngularJS. | CO2 [K ₁] |
| 5. Develop a PHP code to swap any two numbers. | CO3 [K ₃] |
| 6. What are the data types supported by PHP? | CO3 [K ₁] |
| 7. Show the advantages of Node js. | CO4 [K ₂] |
| 8. How does MongoDB store data? | CO4 [K ₁] |
| 9. Explain about Scriptlet Tag. | CO5 [K ₂] |
| 10. Compare JSP and servlet. | CO5 [K ₂] |

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

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|-----|----|--|----|-----|-------------------|
| 11. | a) | A leading toy shop requires an attractive website front cover to promote their online business. Apply the concepts of CSS and write a program that satisfies the above requirements using CSS. | 10 | CO1 | [K ₃] |
| | b) | What are Scripting languages? Why to use it in web application development? Give some examples. | 6 | CO1 | [K ₂] |
| 12. | a) | Explain the XML Name spaces with an example? | 8 | CO2 | [K ₂] |
| | b) | Explain the working of AJAX-DOM with a sample program. | 8 | CO2 | [K ₂] |
| 13. | a) | Design HTML forms to allow users to search for books by title, author, or category. Explain how form data is submitted to the PHP server-side script for processing. Implement PHP code to handle form submissions, validate user input, and display search results dynamically. | 10 | CO3 | [K ₆] |
| | b) | Explain the string handling facility in PHP. | 6 | CO3 | [K ₂] |
| 14. | a) | How to access the MongoDB Documents from Node.js and explain with an example. | 10 | CO4 | [K ₄] |
| | b) | Describe the process of building APIs in Node. js. | 6 | CO4 | [K ₂] |
| 15. | a) | Build a JSP program to read the students data like roll number, name, email and marks from the database and display it in tabular format on web page. | 8 | CO5 | [K ₃] |
| | b) | Explain about the REST based web service with a suitable example program. | 8 | CO6 | [K ₂] |
| 16. | a) | Explain in detail about types of enterprise beans and its lifecycle with neat diagram. | 10 | CO5 | [K ₂] |
| | b) | Write a Servlet program to print the factorial of a number. | 6 | CO5 | [K ₃] |
