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**Question Paper Code: R8205**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2025

Professional Elective

R21ITV201 – FULL STACK WEB DEVELOPMENT

(Common to CSE, ECE, IT, EEE, AI&DS, CSD, CSE(AIML), SC, BME, BT & IOT Branches)

(Regulations R2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. State the function of DNS and the protocol used. CO1- U
2. Give some of the basic internet protocols. CO1- U
3. Write a JavaScript to add two numbers. CO2-App
4. Write a JavaScript Function syntax with an example. CO2-App
5. List out JSTL functional areas. CO1- U
6. Define Intrinsic Event handling. CO1- U
7. Differentiate between variables and constants in PHP CO1- U
8. What is an XML Parser. CO1- U
9. Give the applications of angular JS. CO1- U
10. What is conditional directives in AngularJS? CO1- U

PART – B (5 x 16= 80 Marks)

11. (a) Discuss the structure and components of HTTP request and response messages. Explain the role of HTTP methods such as GET, POST, PUT, and DELETE in web communication. Illustrate your answer with examples of each method and describe how they interact with web servers to perform various actions. CO1- U (16)
- Or
- (b) What is HTTP? How does it work? Give appropriate example. CO1- U (8)
- Why HTTP is called state less protocol? Enlist various methods for state management and also give advantages and disadvantages of each method. CO1- U (8)

12. (a) How can you obtain the client's IP address using JavaScript? Provide the code for this along with an example output. CO1- U (16)
- Or
- (b) Explain what JSON (JavaScript Object Notation) is and its significance in web development. Discuss the syntax of JSON and provide examples to illustrate how data is structured in JSON format. Compare JSON with XML. CO1- U (16)
13. (a) Construct a Java Servlet to display net salary of employee, use JDBC connectivity to get employee details from database. (App). CO2-App (16)
- Or
- (b) How Java Database Connectivity (JDBC) is used to interact with relational databases. Describe the steps involved in establishing a connection, executing SQL queries, and processing results. Write a servlet that performs basic CRUD (Create, Read, Update, Delete) operations using JDBC with a MySQL database. Include code examples for each operation and explain how to handle database connections and exceptions. CO2-App (16)
14. (a) Explain in detail about in built functions in PHP and illustrate with an example. CO1- U (16)
- Or
- (b) Discuss about data types in XML Schema with an example. CO1- U (16)
15. (a) Explain in detail about MVC architecture and its component with a neat diagram. CO1- U (16)
- Or
- (b) Explain the working principle of MVC Framework with an illustration. CO1- U (16)