



RAN-1911000703040001

M.Sc. (ICT) (Sem.-III) Examination November - 2025 Open Source Web Development (Paper-304)

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q.1. Answer the following.

14

1. Explain the use of the nodemon.
2. Explain the difference between blocking and non-blocking code in Node.js with an example.
3. How can you handle “page not found” errors in express?
4. What is the use ofmorgan?
5. What is the purpose of next() function in Express middle ware?
6. How does PHP manage configurations? Mention any two settings that can be configured.
7. Explain the role of error_reporting() function and how it helps in debugging.

Q.2. Answer the following. (Any TWO)

14

1. Analyze the usefulness of Promise with example. How to promisify a function?
2. Describe the use of package.json file along with its important fields. Differentiate between dependencies and devDependencies in package.json.
3. What is Express.js and how does it differ from Node.js core HTTP module?

Q.3. Answer the following in detail. (Any TWO)

14

1. Discuss the purpose and advantages of using the express.Router() module. How does it help in modularizing and maintaining large-scale Express applications?
2. Describe the steps involved in connecting an Express.js application to MongoDB using Mongoose along with features of Schema. Use suitable code to explain.
3. Analyze the use of async .. await to avoid callback hell with code.

Q.4. Answer the following in detail. (Any TWO)

14

1. How can you call API in PHP?
2. What is SQL injection? Analyze its cause. How can you solve it?
3. Explain how PHP can handle XML data. Describe the process of parsing and displaying XML using suitable code examples.

Q.5. Answer the following in detail. (Any TWO)

14

1. How to implement session in PHP? Explain session fixation attack in PHP and its solution with example.
2. List and explain dynamic image manipulation functions in PHP with suitable code.
3. Write necessary code to insert product data in “products” table using PHP.