



RAN-2511001005022001

B.Sc. Computer Science (Sem. V) Examination October - 2025

Major 2 - CS

504 - Web Development Using Mean Stack

Time: 2 Hours]

[Total Marks: 25

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.

[08]

A. Answer any four. (MCQs)

[4]

- MEAN stack stands for:
 - MongoDB, Express, Angular, Node.js
 - MySQL, Express, Angular, Node.js
 - MongoDB, Ember, Angular, Node.js
 - MongoDB, Express, Ajax, Node.js
- Middleware functions in ExpressJS:
 - End the server
 - Modify request/response objects
 - Create databases
 - Replace routing functions
- Which of the following is NOT a feature of AngularJS?
 - Two-way data binding
 - Dependency injection
 - Directive-based approach
 - Built-in SQL database
- AngularJS forms are validated using:
 - ng-form and built-in validation directives
 - Only JavaScript functions
 - External database checks only
 - CSS classes only
- Which core module is used to create a web server in NodeJS?
 - url
 - http
 - net
 - fs
- In Verse 3.10 of Suryasiddhanta, the length of the solar year is approximately given as:
 - 300 days
 - 360 days
 - 365.25 days
 - 370 days

B. Answer any four, (objective type questions)

[4]

- What is a collection in MongoDB?
- Which database is used in MEAN stack?
- Which function is used to create an Express application?
- Who is the author of Suryasiddhanta?
- What is the purpose of routing in ExpressJS?
- What is data binding in AngularJS?

- Q-2. Answer the following [12]**
- A. Write detail note on MVC and MVVM architectures of AngularJS. [07]
- OR**
- A. Write a note on AngularJS forms, form events, and validation. [07]
- B. Explain the traditional web server model and Node.js process model. [05]
- Q-3. Answer the followings any one. [05]**
- A. List and explain any five features of NodeJS.
- B. Explain routing and middleware in ExpressJS with suitable examples.
- C. Demonstrate insert, update, and delete operations in MongoDB using Mongoose.
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