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|  CHENNAI INSTITUTE OF TECHNOLOGY (Autonomous) | CHENNAI INSTITUTE OF TECHNOLOGY (Autonomous) Sarathy Nagar, Pudupedu, Chennai- 600 069. Internal Assessment – I | | |
| Date | 24.02.25 | Max. Marks | 50 Marks |
| Subject Code/Name | CS4201-WEB DEVELOPMENT FRAMEWORKS AND PRACTICES | Time | 1hr 30mins |
| Branch | Common to CSE,IT | Year/Semester | I/II |

| Co. No | Course Objectives |
|--------|---|
| 1 | To understand the difference between web based and server-side programming. |
| 2 | To create awareness on web technology. |
| 3 | To create full stack application using java script-based frameworks. |
| 4 | To develop Python based innovative full stack applications. |
| 5 | To develop java applications using Spring boot and Hibernate. |

At the end of course the students can able to

| Co. No | Course Outcomes | RBT Level |
|--------|---|-----------|
| 1 | Develop business logic for back end using Node.js. | L1,L2 |
| 2 | Create full stack application using Express.js. | L1, L3 |
| 3 | Develop Python based full stack applications. | L1, L3 |
| 4 | Develop strong querying and analytics using MongoDB. | L1, L3 |
| 5 | Develop robust java applications using Spring boot and hibernate. | L2,L3 |

| Q. No | Part-A (2 X 5 = 10 Marks) (Answer all the questions) | CO | RBT | Marks |
|-------|---|-----|-----|-------|
| 1 | List the two key features of Node.js | CO1 | L2 | 2 |
| 2 | What is client side programming? | CO1 | L2 | 2 |
| 3 | List some of the commands used in npm. | CO1 | L1 | 2 |
| 4 | How will you create a web application? | CO1 | L2 | 2 |
| 5 | Explain the purpose of the business logic layer in three-tier architecture? | CO1 | L1 | 2 |
| Q. No | Part- B (16 X 2 = 32 Marks), (8 X 1 = 8 Marks) (Answer all the questions) | CO | RBT | Marks |
| 11 A | Describe the three-tier architecture model, including the presentation, business logic, and data tiers? | CO1 | L2 | 16 |
| (OR) | | | | |
| 11 B | Explain about the various front end, bank end and framework technologies with examples. | CO1 | L2 | 16 |
| 12 A | Explain the event-driven, non-blocking architecture of Node.js and outline its advantages. | CO1 | L2 | 16 |
| (OR) | | | | |

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|------|---|-----|----|----|
| 12 B | Explain in detail about the server side architecture with an example. | CO1 | L2 | 16 |
| 13A | Difference between client side and server side programming. | CO1 | L2 | 8 |