20CS505

Hall Ticket Number:

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| **III/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION** | |
| **January, 2024** | **Computer Science & Engineering** |
| **Fifth Semester** | **Enterprise Programming** |
| **Time:** Three Hours | **Maximum:**70 Marks |
| *Answer Question No.1 compulsorily.* | (14X1 = 14 Marks) |
| *Answer ONE question from each unit.* | (4X14=56 Marks) |

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| 1. | a) | Define Web Application? | CO1 | 1M |
|  | b) | Difference between Web Server and Application Server? | CO1 | 1M |
|  | c) | Write any 2 advantages of JSP. | CO1 | 1M |
|  | d) | Define API? | CO1 | 1M |
|  | e) | What is the purpose of JDBC driver manager? | CO2 | 1M |
|  | f) | What is the purpose of Directive tags in JSP? | CO2 | 1M |
|  | g) | What is Web Socket? | CO2 | 1M |
|  | h) | List out various JSP action tags. | CO2 | 1M |
|  | i) | What do you mean by Query String? | CO3 | 1M |
|  | j) | Difference HTTP and Websocket? | CO3 | 1M |
|  | k) | Define EJB. | CO4 | 1M |
|  | l) | Merits and Demerits of EJBs | CO4 | 1M |
|  | m) | List the types of session bean? | CO4 | 1M |
|  | n) | Write any 3 differences between Java beans and EJBs. | CO4 | 1M |
|  |  | **Unit - I** |  |  |
| 2. | a) | Explain in detail about J2EE architecture and deployment of J2EE application. | CO1 | 7M |
|  | b) | Explain concepts of JDBC and demonstrate the integration of JDBC API in servlet with an example. | CO1 | 7M |
|  |  | **(OR)** |  |  |
| 3. | a) | Explain many variations of Java EE Applications? | CO1 | 7M |
|  | b) | What is session? Illustrate HttpSession tracking and Cookie mechanisms in servlet. | CO1 | 7M |
|  |  | **Unit - II** |  |  |
| 4. | a) | Explain the run time architecture of JSP and write a program demonstrating JSP components. | CO2 | 7M |
|  | b) | Demonstrate custom tags with a suitable program along with Expression Language. | CO2 | 7M |
|  |  | **(OR)** |  |  |
| 5. |  | Explain the application architecture of JSF and MVC pattern with a neat sketch and write a suitable program contains JSTL core tags, JSF core tags and JSF validation. | CO2 | 14M |
|  |  | **Unit - III** |  |  |
| 6. | a) | Explain in detail about a RESTful webservices and its properties with a neat sketch? | CO3 | 9M |
|  | b) | Design a simple web application to demonstrate about how to create a RESTful webservice and how to use it? | CO3 | 5M |
|  |  | **(OR)** |  |  |
| 7. |  | Explain in detail about Web Socket protocol and its Life Cycle with a neat sketch. | CO3 | 14M |
|  |  | **Unit - IV** |  |  |
| 8. |  | Explain in detail about EJB architecture and EJB clients with a neat sketch? | CO4 | 14M |
|  |  | **(OR)** |  |  |
| 9. |  | Explain in detail about various types of EJBs and EJB lifecycle with a neat sketch? | CO4 | 14M |

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