**18CS503**

**Hall Ticket Number:**

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| **III/IV B.Tech (Regular / Supplementary) DEGREE EXAMINATION** | | | |
| **January, 2022** | **Computer Science and Engineering** | | |
| **Fifth Semester** | **Enterprise Programming** | | |
| **Time:** Three Hours | | **Maximum:** 50 Marks | |
| *Answer Question No.1 compulsorily.* | | | (10X1 = 10 Marks) |
| *Answer ONE question from each unit.* | | | (4X10=40 Marks) |
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| 1. | a) | List out the variations of Java EE Applications. | CO1 |  |
|  | b) | Explain Request Dispatcher. | CO1 |  |
|  | c) | Write the syntax of connection object in JDBC API’s. | CO1 |  |
|  | d) | What is Data Validation in f: core Tags? | CO2 |  |
|  | e) | List out any four Java EE Managed Bean scopes. | CO2 |  |
|  | f) | What is Content Production? | CO3 |  |
|  | g) | What is the full form of URI? | CO3 |  |
|  | h) | List out various flavors of Enterprise Beans. | CO4 |  |
|  | i) | What is Interceptors? | CO4 |  |
|  | j) | What is the role of entity manager? | CO4 |  |
| **Unit -I** | | | | |
| 2. | a) | Explain J2EE architecture. | CO1 | 5M |
|  | b) | Explain JDBC with an example program. | CO1 | 5M |
| **(OR)** | | | | |
| 3. | a) | Explain HTTP protocol. | CO1 | 5M |
|  | b) | Write the Application in Java Servlet. | CO1 | 5M |
| **Unit –II** | | | | |
| 4. | a) | Explain JSF core Tags. | CO2 | 5M |
|  | b) | Explain about JSF Managed Beans. | CO2 | 5M |
| **(OR)** | | | | |
| 5. | a) | Explain JSP Standard Tags. | CO2 | 5M |
|  | b) | Explain about JSP custom tags with an example program. | CO2 | 5M |
| **Unit –III** | | | | |
| 6. | a) | Explain about Java Web sockets life cycle. | CO3 | 5M |
|  | b) | Explain Exception Mapping in JAX-RS. | CO3 | 5M |
| **(OR)** | | | | |
| 7. | a) | Explain Content Consumption in JAX-RS. | CO3 | 5M |
|  | b) | Explain Production JSON using the streams API. | CO3 | 5M |
| **Unit -IV** | | | | |
| 8. | a) | Explain various flavors of Enterprise Beans. | CO4 | 5M |
|  | b) | Explain EJB Lifecycle with neat diagram. | CO4 | 5M |
| **(OR)** | | | | |
| 9. | a) | Write the code for Audit Interceptor. | CO4 | 5M |
|  | b) | Explain about Persistence Entities in Java Persistence API. | CO4 | 5M |

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