**20CS505**

**Hall Ticket Number:**

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| **III/IV B.Tech (Regular) DEGREE EXAMINATION** | | | |
| **February,2023** | **Computer Science & Engineering** | | |
| **Fifth Semester** | **Enterprise Programming** | | |
| **Time:** Three Hours | | **Maximum: 7**0 Marks | |
| *Answer Question No. 1 Compulsorily.* | | | (14X1 = 14 Marks) |
| *Answer* ***ANY ONE*** *question from each Unit.* | | | (4X14=56 Marks) |

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| 1. | a) | Differentiate Web Sever and Application server. | CO1 | L3 | 1M |
|  | b) | List out various JSF Core tags. | CO1 | L1 | 1M |
|  | c) | What is EJB? | CO1 | L1 | 1M |
|  | d) | What is the purpose of WebSocket? | CO2 | L2 | 1M |
|  | e) | Define RESTful webservice. | CO2 | L2 | 1M |
|  | f) | What are the different types of statements in JDBC? | CO2 | L3 | 1M |
|  | g) | List out various session tracking techniques. | CO3 | L2 | 1M |
|  | h) | Why do we need JSP technology if we already have servlets. | CO3 | L2 | 1M |
|  | i) | What is the full form of JSON? | CO3 | L1 | 1M |
|  | j) | The WebSocket protocol supports binary and text based messages? (True/False) | CO3 | L2 | 1M |
|  | k) | What is the purpose of WebSocket annotations? | CO4 | L3 | 1M |
|  | l) | What are the various operations of RESTful webservice resource ? | CO4 | L2 | 1M |
|  | m) | What are the various life cycle events of a web sockets. | CO4 | L2 | 1M |
|  | n) | Write any two advantages of JSP? | CO4 | L3 | 1M |
| **Unit -I** | | | | | |
| 2. | a) | Discuss in detail about JEE architecture with a neat sketch. | CO1 | L1 | 7M |
|  | b) | Explain in detail about JDBC application steps with an example. | CO1 | L3 | 7M |
|  |  | **(OR)** |  |  |  |
| 3. | a) | What a Java servlet does? Explain the procedure about creation of Java servlet with an application? | CO1 | L2 | 7M |
|  | b) | What is session? Illustrate HTTP session tracking using cookies in a servlets? | CO1 | L3 | 7M |
|  |  | **Unit -II** |  |  |  |
| 4. | a) | How do you interpret JSPs in the web container. Generate a servlet code from JSP. | CO2 | L3 | 7M |
|  | b) | Demonstrate custom tags with a suitable program along with Expression Language. | CO2 | L4 | 7M |
|  |  | **(OR)** |  |  |  |
| 5. | a) | Explain in detail about various JSP action tags. | CO2 | L1 | 7M |
|  | b) | F Explain various JSP Scripting elements with an example? | CO2 | L3 | 7M |
|  |  | **Unit -III** | |  |  |
| 6. |  | What is RESTful Web Service? and explain various RESTful web service concepts | CO3 | L4 | 14M |
|  |  | **(OR)** |  |  |  |
| 7. |  | Explain in detail about Java web socket Encoders and Decoders. | CO3 | L1 | 14M |
|  |  | **Unit -IV** |  |  |  |
| 8. | a) | Explain the flavors of Enterprise Beans. | CO4 | L1 | 7M |
|  | b) | Explain in detail EJB life cycle with example. | CO4 | L3 | 7M |
|  |  | **(OR)** |  |  |  |
| 9. | a) | Explain in detail about exposing EJBs. | CO4 | L2 | 7M |
|  | b) | Explain the run time architecture of JSP with a neat sketch | CO4 | L3 | 7M |

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