Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code : 14CS3059** | | **Duration :** | **3hrs** |
| **Sub. Name : WEB SERVICES** | | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Explain the five core web service standards and technologies for building and enabling web services. | CO1 | 10 |
| b. | Illustrate the basic steps involved in implementing web services. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | What are web services? Sketch the basic operational model of web services. | CO1 | 10 |
| b. | Discuss the core distributed computing technologies. | CO1 | 10 |
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| 3. | a. | Elucidate the structure of a SOAP message in detail. Give an example XML code of SOAP request and response message. | CO2 | 20 |
| (OR) | | | | |
| 4. | a. | Define UDDI registry service. Discuss the procedure for doing the following:   * Publishing information to a UDDI Registry * Searching information in a UDDI Registry * Deleting information from a UDDI Registry | CO2 | 20 |
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| 5. | a. | Explain the Java API for XML Processing model with DOM and give its sequence diagram. | CO3 | 20 |
| (OR) | | | | |
| 6. | a. | Explain the role of JAXM in Web Services with neat architecture diagram and illustrate the working flow of JAXM provider-based communication with JAXM APIs for creating, sending, and receiving messages. | CO3 | 20 |
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| 7. | a. | Describe the JAX-RPC-based application architectural model and its core elements. | CO3 | 20 |
| (OR) | | | | |
| 8. | a. | Explain the various JAXR Registry services API in detail. | CO3 | 20 |
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|  | | **Compulsory**: |  |  |
| 9. | a. | Explain the challenges and the prominent techniques involved in securing the Web service. | CO1 | 20 |