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

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**End Semester Examination – Nov/Dec– 2018**

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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 with neat sketch about web services architecture and its core building blocks. | CO1 | 10 |
| b. | Elucidate the communication models used in the design and implementation of web services. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Illustrate the process steps involved in implementing SOAP based web services. | CO1 | 10 |
| b. | Explain distributed computing and discuss the importance and challenges of distributed computing technologies. | CO1 | 10 |
|  |  |  |  |  |
| 3. |  | Explain the anatomy of a SOAP message with SOAP fault and SOAP attachments. | CO2 | 20 |
| (OR) | | | | |
| 4. | a. | Define UDDI registry service. Discuss the programming steps in Publishing information to the UDDI Registry | CO2 | 10 |
| b. | Elucidate the structural elements of the WSDL Definition Document. | CO2 | 10 |
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| 5. |  | Explain the JAXP-DOM processing model for parsing XML document with its sequence diagram. | CO3 | 20 |
| (OR) | | | | |
| 6. |  | Explain the role of JAXM in Web Services with neat architecture diagram and illustrates the XML messaging using JAXM provider based APIs. | CO3 | 20 |
|  |  |  |  |  |
| 7. |  | Describe the JAX-RPC-based application architectural model and its core elements. | CO3 | 20 |
| (OR) | | | | |
| 8. |  | Discuss the challenges in securing web services on network. | CO3 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Sketch the JAXR architecture and explain the JAXR Registry services API in detail. | CO3 | 20 |