

Code No: **R41056****R10****Set No. 1****IV B.Tech I Semester Supplementary Examinations, February/March - 2018****WEB SERVICES****(Open Elective)****Time: 3 hours****Max. Marks: 75****Answer any FIVE Questions
All Questions carry equal marks**

- 1 a) Define Distributed Computing and explain its evolution. [8]
b) Describe the Message-Oriented Middleware (MOM) architecture with a neat sketch. [7]
- 2 a) What are Web Services? Why we need to use Web Services? [8]
b) Explain the Industry Standards supporting Web Services. [7]
- 3 a) Discuss the key design requirements of the Web services architecture. [8]
b) Elaborate the basic steps involved in implementing Web services. [7]
- 4 a) What are WSDL Binding Extensions? Discuss the WSDL binding support for Operations. [8]
b) Describe the Web service life cycle with a neat sketch. [7]
- 5 a) Write the anatomy of a SOAP Message. [6]
b) Describe the SOAP message exchange model with intermediaries. [9]
- 6 a) Explain the UDDI Programming API. [7]
b) Discuss the programming steps for searching information in a UDDI Registry. [8]
- 7 a) What are the different ways to ensure service requestor interoperability with the service providers? Explain. [8]
b) Discuss the challenges that affect interoperability in Web services. [7]
- 8 a) Explain the technologies behind securing Web Services. [8]
b) Discuss the components of XML Key Management Specification (XKMS). [7]