GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra)

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Name of Examination : **Summer 2021** - (Preview)

Course Code & Course Name : **CO453A - Elective II-Web Services and SOA**

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Maximum Marks : **60**   Duration : **3 Hrs**

Edit | Print | View Answer Key | Close | **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. *All questions are compulsory.*
2. *Solve any two sub questions from Que No. 1, 2 and 3*
3. All the sub questions in Que 4 and 5 are compulsory
4. *Illustrate your answer with suitable figures/sketches wherever necessary.*
5. *Assume suitable additional data; if required.*
6. *Use of logarithmic table, drawing instruments and non programmable calculators is allowed.*
7. *Figures to the right indicate full marks.*

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1) a) **What is Service-Oriented Architecture (SOA) ? Explain various Characteristics of SOA ?** [6]

b) **Compare SOA with client-server and distributed internet architectures** [6]

c) **What is Web Service? Explain the working of web service** [6]

2) a) **What is SOAP (Simple Object Access Protocol)? Explain the contents of SOAP messages?** [6]

b) **What is orchestration in web service? Draw orchestration and choreography ?** [6]

c) **Draw and explain the process of service oriented analysis(SOA)** [6]

3) a) **Draw and explain SOA support in J2EE** [6]

b) **Draw and explain Java API for XML based web services (JAX-WS)** [6]

c) **Draw and explain Java API for XML registries(JAXR)** [6]

4) a) **Draw and explain the architecture of Java API for XML based RPC (JAX-RPC)** [6]

b) **State and explain various technologies provided by Web Services Interoperability Technology (WSIT)** [6]

5) a) **Draw and explain WS-Coordination framework** [6]

b) **What is Web Services Interoperability Technology (WSIT)? Explain Bootstrapping and Configuration process in WSIT** [6]

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