


<b>Name:</b>	
<b>Enrolment No:</b>	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, December 2021**

<b>Course: Service Oriented Architecture</b>	<b>Semester: V</b>
<b>Program: B. Tech. CSE OSSOS</b>	<b>Time 03 hrs.</b>
<b>Course Code: CSEG 3008</b>	<b>Max. Marks: 100</b>

**SECTION A**

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| <b>1. Each Question will carry 4 Marks</b><br><b>2. All Questions are compulsory.</b> | <b>5Q × 4M = 20Marks</b> |
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S. No.	Question	CO
Q 1	Illustrate various principles of Service Oriented Architecture.	CO1
Q2	Briefly explain component based and interface based design.	CO2
Q3	Describe the key aspects of Service Oriented Design.	CO2
Q4	Explain basic SOA Architecture along with its diagram.	CO1
Q5	Explain about SOA Governance framework and its three types.	CO4

**SECTION B**

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| <b>1. Each question will carry 10 marks</b><br><b>2. Draw diagrams wherever applicable.</b> | <b>4Q×10M=40Marks</b> |
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Q 6	Illustrate the SOA Lifecycle along with various stages in detail.	CO1
Q 7	Describe Business Process Management (BPM) and explain its three-phase architecture along with a suitable diagram.  OR  Define Business Process Management Lifecycle with different BPM notations and diagrams.	CO2
Q 8	Describe the all WSDL (Web Services Description Language) components with an example WSDL document.	CO3
Q 9	Describe SOA governance and explain the component of SOA governance with suitable diagram.	CO4

**Section C**

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| <b>1. Each Question carries 20 Marks.</b><br><b>2. Write in detail in about 800 words.</b> | <b>2Q×20M = 40 Marks</b> |
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Q10	Describe in detail about the TOGAF (The Open Group Architecture framework) and its Enterprise Architecture Domains.  OR  Discuss the SOA RA architecture and its different layers in detail with diagram.	CO4
Q11	Describe the SOAP Skeleton with SOAP Request and Response Message in detail.	CO3