

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, May 2021

Course: Service Oriented Architecture	Semester: V
Program: BTECH (CCVT)	Time 03 hrs.
Course Code: CSEG3008	Max. Marks: 100

SECTION A

- 1. Each Question will carry 5 Marks**
- 2. Instruction: Complete the statement / Select the correct answer(s)**

S. No.	Question	CO
Q 1	When is an SOA implementation most appropriate? a) Real-time performance is critical. b) An immediate Return on Investment (ROI) is required. c) The application interfaces require a high degree of customization. d) Business functionality is required by many parts of the organization.	CO2
Q2	Which SOA architectural concept is applied as an organization combines services to perform a business process? a) Modularity b) Composition c) Encapsulation d) Separation of concerns	CO3
Q3	SOA _____ an extension of the Service Oriented Architecture to respond to events that occur as a result of business processes.	CO3
Q4	Services are designed to be _____	CO1
Q5	_____ is a repeatable task within a business process?	CO1
Q6	Which of the following describes a message-passing taxonomy for a component-based architecture that provides services to clients upon demand? a) SOA b) EBS c) GEC d) All of the mentioned	CO2

SECTION B

- 1. Each question will carry 10 marks**
- 2. Instruction: Write short / brief notes**

Q 7	Describe the basic SOA architecture with labelled diagram. Also Define various SOA principles	CO1
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Q 8	Elaborate SOA governance framework and define various key factors of SOA Governance policies.	CO5
Q 9	Describe all the WSDL components with an example of WSDL document and also describe UDDI architecture in detail.	CO3
Q 10	What is the difference between services oriented and component based design?	CO2
Q 11	Discuss SOA RA architecture with diagrams.	CO5
Section C		
1. Each Question carries 20 Marks. 2. Instruction: Write long answer.		
Q12	Define Business process execution language (BPEL) and its all core elements with details and diagrams. <p style="text-align: center;">OR</p> Define Business process management architecture and BPM Lifecycle with diagrams. Also explain what BPMN is.	CO4