

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, April/May 2018

Course: Service Oriented Architecture
Program: B.Tech. OSS/CCVT
Time: 03 hrs.

Course Code: CSIB312
Semester: VI
Max. Marks: 100

Instructions: All questions are compulsory and make the necessary diagrams.

SECTION A

S. No.		Marks
Q 1	Describe the basic SOA architecture with labelled diagram.	4
Q 2	Define the needs and benefits of Business Integration process.	4
Q 3	Describe SOA lifecycle and its stages.	4
Q 4	Define the various SOA principles	4
Q 5	Provide some features and benefits of SOA.	4

SECTION B

Q 6	Illustrate the role of Interface based design in SOA.	10
Q 7	What is the difference between services oriented and component based design?	10
Q 8	Elaborate SOA governance framework and define various key factors of SOA Governance policies.	10
Q 9	Discuss SOA RA architecture with diagrams.	10

SECTION C

Q 10	Define Business process execution language (BPEL) and its all core with details and diagrams. <p style="text-align: center;">OR</p> Define Business process management architecture and BPM Lifecycle with diagrams.	20
Q 11	Describe all the WSDL components with an example of WSDL document and describe the UDDI elements and UDDI architecture in detail.	20

Name:

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SECTION A

S. No.		Marks
Q 1	What is a Service Oriented Architecture?	4
Q 2	Which are the challenges involved in implementing SOA?	4
Q 3	Define SOA layered architecture in detail.	4
Q 4	How can you achieve loose coupling in a SOA?	4
Q 5	Describe the business centric entry points into SOA.	4

SECTION B

Q 6	Illustrate the approach of Service Oriented design and its key objectives.	10
Q 7	Elaborate the publishing and consumption process of a service with diagram.	10
Q 8	Define the approach for implementing SOA governance in detail.	10
Q 9	Describe the components and benefits of SOA Governance.	10

SECTION-C

Q 10	Define Business process management notations (BPMN) with associated examples and diagrams. <p style="text-align: center;">OR</p> Define Business process management architecture and discuss the relationship between BPM and SOA with diagram.	20
Q 11	Define the Web Service and its architecture. Describe Web Service standards that are commonly used. Implement a weather web service in any platform using the concept of web services.	20