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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2019

Course: Service Oriented Architecture   Semester: VI
Program: B.Tech. CS+CCVT/MC/OSSOS   Time 03 hrs.
Course Code: CSIB312   Max. Marks: 100

Instructions: All questions are compulsory

SECTION A			
S. No.		Marks	CO
Q 1	Give the details of SOA lifecycle and also discuss its various stages.	4	CO1
Q 2	Provide the detail of SOI and different integration services.	4	CO5
Q 3	Discuss different layers of Enterprise Architecture.	4	CO3
Q 4	Illustrate various principles of Service Oriented Architecture.	4	CO3
Q 5	Provide some features and benefits of SOA.	4	CO5
SECTION B			
Q 6	Give the detail description of SOA RA architecture with diagram.	10	CO4
Q 7	Illustrate all the major differences between service oriented and component based design.	10	CO1
Q 8	Elaborate SOA governance framework and define various key factors of SOA governance policies.	10	CO4
Q 9	Define Business Process Management architecture and BPM Lifecycle with diagrams. **OR** Explain Service Oriented Architecture conceptual model in detail.	10	CO3
SECTION-C			
Q 10	Define the Web Service and its architecture. Describe Web Service standards that are commonly used. Also implement a Currency Conversion web service in any platform using the concept of web services. OR Describe in detail about the TOGAF framework and TOGAF- Enterprise Architecture Domains.	20	CO4 CO5
Q 11	Describe all the WSDL components with an example of WSDL document and describe the UDDI elements and UDDI architecture in detail.	20	CO2 CO4

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SECTION A

S. No.		Marks	CO
Q 1	Give and explain the definition of SOA and also explain the features of SOA.	4	CO1
Q 2	Explain all challenges involved in implementing SOA.	4	CO5
Q 3	Discuss about the role of cloud computing in service oriented architecture.	4	CO3
Q 4	Briefly explain component based and interface based design.	4	CO3
Q 5	Give a description of web services along with their characteristics.	4	CO5

SECTION B

Q 6	Provide a description of BPM and also explain its three phase architecture along with a suitable diagram.	10	CO4
Q 7	Discuss Enterprise Architecture in detail along with its goals, benefits and layers.	10	CO1
Q 8	Explain in detail about the TOGAF (The Open Group Architecture Framework) with suitable diagram.	10	CO4
Q 9	Give a description about SOA governance and also explain the component of SOA governance with suitable diagram. OR Provide a detailed description of SOA lifecycle stages and also discuss in detail about the key areas of SOA solutions.	10	CO3

SECTION-C

Q 10	Define Business Process Management Notations (BPMN) with associated examples and diagrams. **OR** Define Business Process Management architecture and discuss the relationship between BPM and SOA with diagram.	20	CO4 CO5
Q 11	Explain in detail about SOI and SOCCI along with its elements and governance model. Also provide a comparison between traditional, SOI and SOCCI environments.	20	CO2 CO4