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Roll No.: _____

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -III EXAMINATION- May 2019

B.Tech (CSE&IT) VIII Semester

COURSE CODE: 13B1WCI831

MAX. MARKS: 35

COURSE NAME: Service Oriented Architecture

COURSE CREDITS: 3

MAX. TIME: 2 Hrs

Note: Attempt all the questions. Carrying of mobile phone during examinations will be treated as case of unfair means.

Que.1: a) [3 Marks] In case of Entity-Centric Business Service Design, what services are to be built (entity, task and application) and how to organize them on different layers? Explain.

b) [2 Marks] What features are provided by WS-*extensions which are required by SOA? Explain.

Que.2: a) [2 Marks] Explain SOAP. In addition, explain all building blocks with appropriate examples.

b) [3 Marks] Explain the relationship between SOA and Enterprise architecture. How the reference architecture is maintained using SOA? Explain.

Que.3: a) [2 Marks] What is WSIT? List and explain WSIT Web Services Features.

b) [3 Marks] WSIT uses or extends existing features at SOA and adds new support for interoperable web services. What are extended technologies? Explain.

Que.4: a) [2 Marks] Explain CLR runtime in detail.

b) [2 Marks] How SOA support is provided in .NET? Explain.

Que.5: a) [2 Marks] Explain the automatic Data Binding. Also, write WS-* Specifications.

b) [2 Marks] Explain WSE Architecture. Also provide WSE feature in detail.

Que.6: a) [2 Marks] Explain different Web Service Composition Methods. Also, explain how BPEL Web Services are Coordinating?

b) [2 Marks] What is a typical BPEL process? Explain in detail.

Que.7: a) [2 Marks] What is WSDL? Explain.

b) [2 Marks] Explain different architectural Models.

Que.8: a) [2 Marks] Discuss different Security Challenges for Web Services.

b) [2 Marks] Defines a model to express the properties as policies of Web Service entities.