

Total No. of Questions :10]

SEAT No. :

P1876

[4859]-1066

[Total No. of Pages :3

B.E. (IT)

SERVICE ORIENTED ARCHITECTURE

(2012 Course) (End-Sem) (Semester - I) (414457 B) (Elective - II)

Time :2½ Hours]

[Max. Marks :70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.*
- 2) Neat diagrams must be drawn wherever necessary.*
- 3) Figures to the right side indicate full marks.*

Q1) a) Explain Common Misperceptions about SOA. **[5]**

b) Explain in detail about coordinator service composition with activation and completion process with neat sketch. **[5]**

OR

Q2) a) Explain in detail about three different layers of service abstraction. **[5]**

b) Enlist pitfalls of adopting SOA. **[5]**

Q3) a) Explain importance of service description in SOA and state difference between abstract description and concrete description. **[5]**

b) Compare SOA with Client Server architecture. **[5]**

OR

Q4) a) Explain message information header and different fields that MI header includes provided by WS-addressing. **[5]**

b) Explain different roles played by service during runtime processing of messages. **[5]**

Q5) a) With neat diagram explain SOA delivery lifecycle phases. **[9]**

b) With neat diagram explain step by step process of service modeling. **[9]**

OR

P.T.O.

- Q6)** a) Explain following delivery strategies of SOA. [9]
- i) Top-down strategy
 - ii) Bottom-up strategy
 - iii) The agile strategy
- b) Enlist and explain the sources from which services can be derived and types of derived services. [9]
- Q7)** a) Explain with example following elements of XSD. [8]
- i) *Schema* element
 - ii) *Element* element
 - iii) *ComplexType* element
 - iv) *Import* and *Include* element
- b) Explain different steps of composing SOA. [8]

OR

- Q8)** a) Explain following service interface design tools with their pros and cons. [8]
- i) Auto generation
 - ii) Design tools
 - iii) Hand Coding
- b) Explain structure of SOAP message and following basic elements of SOAP language [8]
- i) *envelope* element
 - ii) *header* element
 - iii) *body* element
 - iv) *fault* element

- Q9)** a) With neat diagram explain step by step process of application service design. [8]
- b) With neat diagram explain step by step process of task centric service design. [8]

OR

- Q10)** a) Explain following elements of WS-BPEL language basics: [8]
- i) *process* element
 - ii) *partnerLinks* and *partnerLink* element
 - iii) *partnerLinkType* element
 - iv) *Sequence* element
- b) Write short note on mapping of SOA and cloud computing. [8]

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