Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : X 20775

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Seventh/Eighth Semester

Information Technology

IT6801 – SERVICE ORIENTED ARCHITECTURE

(Common to Computer Science and Engineering)

(Regulations 2013)

(Also Common to PTIT 6801 – Service Oriented Architecture B.E. Part Time

– Seventh Semester Information Technology – Regulations 2014)

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions

PART – A   **(10×2=20 Marks)**

1. Difference between XML and HTML.

2. Mention the components of Document type declaration.

3. Write the steps in parsing XML document using DOM.

4. Difference between DOM and SAX.

5. List out the requirements is needed to fill QoS gaps between contemporary and primitive SOA.

6. How is loose coupling concept achieved in SOA ?

7. What is Choreography ?

8. Define Loose coupling.

9. List out the standards that web service depends.

10. What is web service composition ?

PART – B   **(5×13=65 Marks)**

11.a)   Explain in detail about XML schema.

(OR)

b) i) Write the XML well formed and valid documents.   **(7)**

ii) Explain about Namespaces.   **(6)**

12. a) i) Outline the XML document object model with an example. **(7)**

     ii) Write the working of a SAX parser. **(6)**

          (OR)

   b) Describe the XML transformation and XSL with an example.

13. a) i) Write the characteristics of SOA. **(7)**

     ii) Outline the benefits of SOA. **(6)**

          (OR)

   b) Compare SOA with Client-Server and Distributed architectures. **(13)**

14. a) Explain the WSDL document structure with an example. **(13)**

          (OR)

   b) i) Draw the message structure of SOAP. **(7)**

     ii) Write short notes on UDDI. **(6)**

15. a) Give the architecture components of J2EE to SOA and WS policy. **(13)**

          (OR)

   b) i) Write short notes on WS-Coordination. **(6)**

     ii) Describe the Service Modeling of SOA. **(7)**

<div align="center">

PART – C   **(1×15=15 Marks)**

</div>

16. a) Explain using DTD for Entity Declaration and external DTD.

          (OR)

   b) Draw the DOM parser for a specific XML-Based application.

—————————