Exam No:

GANPAT UNIVERSITY
M. Tech [IT] SEMESTER-I
REGULAR EXAMINATION JAN-2013
3IT104: SERVICE ORIENTED COMPUTING

Time: 3 Hours]   [Total Marks: 70
Instructions:
1. Figures to the right indicate full marks
2. Each section should be written in a separate answer book
3. Be precise and to the point in your answer

SECTION-I

Q.1   Answer the following.
(A)   Explain SOC Research Road Map, in brief.   **(6)**
(B)   Define the following terms: **(6)**
    (i)   Loose Coupling
    (ii) Distributed Systems

OR

Q.1   Answer the following.
(A)   Specify the rules to write IDL file in SUN RPC. Discuss various steps   **(6)**
    of DCE RPC programming.
(B)   Define the following terms: **(6)**
    (i)   Middleware
    (ii) DCOM

Q.2   Answer the following.
(A)   Define ORB. Compare CORBA with Java RMI and Web services   **(5)**
    technologies.
(B)   Describe various steps for developing a Java RMI application. How   **(6)**
    to achieve security in Java RMI.

OR

Q.2   Answer the following.
(A)   Define Distributed Object Systems. Explain the various components   **(5)**
    of CORBA Architecture.
(B)   Write a program to implement Calculator service using Java RMI.   **(6)**

Q.3   Answer the following.
(A)   What is Markup language? Compare and contrast XML with HTML.   **(6)**
(B)   Define XML parser. Describe various XML parsing standards.   **(6)**

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Q.4 Answer the following.

(A) Define Namespace. Describe the importance of Namespace in XML document. **(6)**

(B) Explain the main elements of XML document. **(6)**

OR

Q.4 Answer the following.

(A) Compare RPC-style and Message-style SOAP services, in detail. **(6)**

(B) Define SOAP. Explain various building blocks of SOAP protocol. **(6)**

Q.5 Answer the following.

(A) Define WSDL. Describe Message Exchange Patterns supported by WSDL. **(6)**

(B) Explain Representational State Transfer (ReST). **(5)**

OR

(A) What is Service Discovery? Describe the data model of UDDI. **(6)**

(B) Describe the steps required to implement Web services programming. **(5)**

Q.6 Answer the following.

(A) Explain layered architecture of Semantic Web Technology. **(6)**

(B) Write short note on Web Services Composition. **(6)**

END OF PAPER