

GANPAT UNIVERSITY
M. Tech SEMESTER-I IT
REGULAR EXAMINATION JAN-2012
PGIT104: 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 Service Foundations and Service Management aspects of Extended Service Oriented Architecture. (6)
- (B) Define the following terms: (6)
- (i) Service Interface
 - (ii) Web Services
 - (iii) Distributed Systems

OR**Q.1 Answer the following.**

- (A) Define Remote Procedure Call (RPC). Discuss properties and disadvantages of RPC. (6)
- (B) Define the following terms: (6)
- (i) Middleware
 - (ii) Portmapper
 - (iii) Doors

Q.2 Answer the following.

- (A) Define Distributed Object Systems. Explain the various components of CORBA architecture. (5)
- (B) Describe various steps for developing a RMI application. (6)

OR**Q.2 Answer the following.**

- (A) Describe various steps for implementation of CORBA application. (5)
- (B) Write a program to implement Calculator service using Java RMI. (6)

Q.3 Answer the following.

- (A) Define XML. Explain advantages and disadvantages of XML over HTML. (6)
- (B) Write short note on SUN RPC. (6)

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SECTION-II

Q.4 Answer the following.

- (A) What is valid XML document? How to validate the structure of XML document? (6)
- (B) Describe various building blocks of XML document. (6)

OR

Q.4 Answer the following.

- (A) Define SOAP. Explain SOAP message structure with suitable example. (6)
- (B) Compare RPC-style and Message-style SOAP services, in detail. (6)

Q.5 Answer the following.

- (A) Explain various elements of WSDL document, in brief. (6)
- (B) Describe the data structure of UDDI. (5)

OR

- (A) Discuss the concept of Semantic Web and its layered approach. (6)
- (B) Discuss the concept of RDFS with an example of a university. (5)

Q.6 Answer the following.

- (A) Explain the purpose of OWL and usage of OWL to define properties. (6)
- (B) Define Business Process. Describe Web Services Composition with an example. (6)

END OF PAPER