

M. Tech .
Morning

Date: 06/01/2014.

Exam No:

GANPAT UNIVERSITY
M. Tech [IT] SEMESTER-I
REGULAR EXAMINATION JAN-2014
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) Define the following terms: (6)
(i) Service Oriented Architecture
(ii) Service composition
(iii) Loosely coupled services
- (B) Describe the principles of Object oriented approach and Service oriented approach. (6)

OR

Q.1 Answer the following.

- (A) Define Remote Procedure Call (RPC). Explain various terms related to SUN RPC implementation. (6)
- (B) Define the following terms related to Java RMI: (6)
(i) Distributed Objects
(ii) RMI compiler
(iii) Security Manager

Q.2 Answer the following.

- (A) 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) Discuss static and dynamic binding for CORBA. (5)
- (B) Write a program to calculate Prime number service using Java RMI. (6)

Q.3 Answer the following.

- (A) Compare DTD and XML Schema. (6)
- (B) Describe various components of XML document. (6)

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SECTION-II

Q.4 Answer the following.

- (A) Discuss Valid and Well-formed XML document with example. (6)
- (B) Describe the importance of Namespace in XML document. Define target and default namespace. (6)

OR

Q.4 Answer the following.

- (A) Describe SOAP Communication Model. (6)
- (B) Define SOAP. Explain SOAP message structure with suitable example. (6)

Q.5 Answer the following.

- (A) Explain various elements of WSDL document, in brief. (6)
- (B) Define design principles of ReST with example. (5)

OR

Q.5 Answer the following.

- (A) Describe the steps required to implement Web services programming. (6)
- (B) Discuss the data model of UDDI. (5)

Q.6 Answer the following.

- (A) Explain the layered model of Semantic Web. (6)
- (B) Compare static and dynamic approach for Web services composition. (6)

END OF PAPER