

**GANPAT UNIVERSITY**  
M. TECH SEM- I (IT) REGULAR EXAMINATION NOV-DEC 2015  
**3IT104: Service Oriented Computing**

MAX. TIME: 3 HRS

MAX. MARKS: 60

- Instructions:** (1) This Question paper has two sections. Attempt each section in separate answer book.  
(2) Figures on right indicate marks.  
(3) Be precise and to the point in answering the descriptive questions.

**SECTION: I**

**Q.1 Answer the following.**

- (A) Define the following terms: [5]  
(i) Network-based Services  
(ii) Distributed Computing
- (B) Discuss various types of Remote Procedure Call (RPC) in brief. [5]

**OR**

**Q.1 Answer the following.**

- (A) Discuss various steps of SUN RPC programming. [5]  
(B) Differentiate Object-oriented approach with Service-oriented approach [5]

**Q.2 Answer the following.**

- (A) Explain CORBA Architecture in detail. [5]  
(B) Write a program to implement Calculator service using Java RMI. [5]

**OR**

**Q.2 Answer the following.**

- (A) Compare CORBA and Java RMI as a middleware. [5]  
(B) Describe various steps for developing a Java RMI application. [5]

**Q.3 Answer the following.**

- (A) Describe the structure of an XML document. [5]  
(B) Explain various schema mechanism of XML. [5]

**[P.T.O]**

## SECTION: II

Q.4 Answer the following.

- (A) Define the structure of SOAP with an example. [5]
- (B) Define Various types of Namespace and describe the role of Namespace in XML document. [5]

OR

Q.4 Answer the following.

- (A) Write short note on XML parser. [5]
- (B) Describe SOAP message processing in brief. [5]

Q.5 Answer the following.

- (A) Explain <types>, <message> and <operation> elements of WSDL document. [5]
- (B) Describe SOAP-based Web service with RESTful Web service. [5]

OR

Q.5 Answer the following.

- (A) Define Web services programming for Echo Web service. [5]
- (B) Explain the various elements of UDDI registry. [5]

Q.6 Answer the following.

- (A) Explain Semantic Web architecture. [5]
- (B) Write short note on Linked Open Data [5]

-----END OF PAPER-----