

3 hours

[80 marks]



N. B.:

- (1) Question no 1 is **compulsory**.
- (2) Attempt **any three** questions out of remaining five.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data wherever necessary

- Q.1 a Differentiate between Statefull & Stateless server **5M**
- b Assume a client calls an asynchronous RPC to a server, and subsequently waits until the server returns a result using another asynchronous RPC. Is this approach the same as letting the client execute a normal RPC? What if we replace the asynchronous RPCs with synchronous RPCs? Discuss **10M**
- c In the two-phase commit protocol, why can blocking never be completely eliminated, even when the participants elect a new coordinator? **5M**
- Q.2.a Explain Distributed Computing model with the help of example. **10M**
- b Explain implementation of sequential consistency model with non replicating migrating blocks strategy. **10M**
- Q.3 a. What is physical clock synchronization? Explain any one in details. **10M**
- b Explain the issues to be handled While designing DSM? **10M**
- Q.4.a Explain Code Migration & role of mobile agent. **10M**
- b Write a note on Group Communication. **10M**
- Q.5.a. Explain Distributed algorithm for mutual exclusion. What are the advantage and disadvantage of it over Centralized algorithm **10M**
- b What are the Purpose of WSDL? Explain WSDL document structure using Block diagram. **10M**
- Q.6 Write a short note on (**any two**) **20M**
- a. .NET Remoting
 - b. SOA lifecycle
 - c. Network Operating system
 - d. Corba

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Subject: Correction in Program Code : T3326 - T.E.(INFORMATION TECHNOLOGY)(SEM VI) (Rev-2012) (CBSGS) / T0905 - DISTRIBUTED SYSTEMS Q.P Code : 27155

From: University of Mumbai<support@muapps.in> on Fri, 18 May 2018 15:41:39

To: <exam_kgce2010@rediffmail.com>



University of Mumbai

Correction in **Program Code : T3326 - T.E.(INFORMATION TECHNOLOGY)(SEM VI) (Rev-2012) (CBSGS) / T0905 - DISTRIBUTED SYSTEMS Q.P Code : 27155**

Read As,

Q 1) b) What if we replace the asynchronous RPCs with synchronous RPCs.
instead of What if we replace the asynchronous RPCs with asynchronous RPCs.

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support@muapps.in

022-26534263 / 022-26534266

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