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BO—16—2016

FACULTY OF COMPUTER STUDIES

B.C.A. (Third Year) (Fifth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2016

(Revised Course)

DISTRIBUTED SYSTEM

Paper BCA-S-5.3

(Tuesday, 22-11-2016)

Time : 10.00 a.m. to 1.00 p.m.

Time—Three Hours

Maximum Marks—80

- N.B. :—*
- (i) All questions are compulsory.*
 - (ii) Figures to the right indicate full marks.*
 - (iii) From Question Nos. 2 to 4 solve either (a) and (b) Or (c) and (d).*
 - (iv) Assume suitable data if, necessary.*

1. Attempt the following : 20
 - (a) What is distributed system ? Discuss its characteristics.
 - (b) Explain server clusters in detail.
 - (c) Explain in short : RPC.
 - (d) Discuss interrupters in short.
2.
 - (a) Explain architectural styles. 8
 - (b) Discuss centralized architecture in short. 7

Or

 - (c) Discuss decentralized algorithm for mutual exclusion. 8
 - (d) Discuss virtualization in detail. 7
3.
 - (a) Discuss distributed pervasive system. 8
 - (b) Discuss the concept of code migration. 7

Or

 - (c) Discuss the concept of Lamport's logical clock. 8
 - (d) Explain the concept of server. 7

P.T.O.

4. (a) Discuss election algorithms. 8
- (b) Explain flat naming in detail. 7
- Or*
- (c) Discuss self management in distributed system with any *one* example. 8
- (d) Discuss global positioning of nodes. 7
5. Write short notes on any *three* : 15
- (a) Structured naming
- (b) Physical Clock
- (c) Goals of distributed system
- (d) Clock synchronization
- (e) ACID properties.