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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.

WT	(2)	BO—16—2016
4.	(a) Discuss election algorithms.	8
	(b) Explain flat naming in detail.	7
	<i>Or</i>	
	(c) Discuss self management in distributed system with any <i>one</i> example.	8
	(d) Discuss global positioning of nodes.	7
5.	Write short notes on any <i>three</i> :	15
	(a) Structured naming	
	(b) Physical Clock	
	(c) Goals of distributed system	
	(d) Clock synchronization	
	(e) ACID properties.	