BE INSEM AUG 2018

BE/Insem/Oct. - 590

B.E. (Computer Engineering)
DISTRIBUTED SYSTEMS (Elective - II)
(2015 Pattern) (Semester - I)

[Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates :

1) Neat diagrams must be drawn wherever necessary.
2) Figures to the right indicate full marks.
3) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.
4) Assume suitable data if necessary.

Q1) a) Explain transparency in Distributed System with examples. [5]

b) Explain architectural models employed in Distributed System. [5]

OR

Q2) a) Describe with diagram the role of client and server stub procedures in RPC in the context of a procedural language. [5]

b) Define Distributed System. Explain significant characteristics of Distributed System. [5]

Q3) a) What is Fairness? Describe the different types of Fairness. [5]

b) How clock synchronization is achieved in Distributed System using logical clock? [5]

OR

Q4) a) Explain Ricart & Agrawala's mutual exclusion algorithm. [5]

b) Explain in detail Group Mutual Exclusion problem. [5]

Q5) a) Explain properties of consistent snapshot. [5]

b) Write a short note on election in Arbitrary networks. [5]

OR

Q6) a) Explain in detail Bully algorithm. [5]

b) Write a short note on Global State Collection. [5]

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