

State University of Bangladesh
Department of Computer Science and Engineering
Final Examination Summer-2021
CSE-0409 Parallel Processing and Distributed System

Time:2 Hours

Full Marks:40

Submit Before: 02.45 PM (28-09-2021)
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Email Subject: Student ID_CSE-0409_Final-Summer-2021
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Cover Page: Student ID, Name, Course Code, Course Title, Date-time

Answer all the following questions

1.
 - a) **Define** distributed system and briefly **explain** the characteristics of distributed system. 4
 - b) **Describe** four goals of distributed system. 6
2.
 - a) With diagram briefly **explain** about distributed computing system? 5
 - b) **Apply** your understanding on transaction processing system and enterprise application integration on the basis of distributed system. 5
3.
 - a) Briefly **describe** speedup in case of parallelism. 2
 - b) **Analyze** that speedup is linear if $S(n) = n$ 4
 - c) Is super linearity possible? **Justify** your answer. 4
4.
 - a) Briefly **describe** the shared memory access conflicts in PRAM. 4
 - b) Which value gets written finally when concurrent write (CW) conflict occurs, **analyze** your answer. 3
 - c) Briefly **explain** why PRAM is attractive and important model for designers of parallel algorithms? 3