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**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
MID TERM EXAMINATION - APR 2023**

Semester : Semester VI - B.Tech CSE - 2020

Course Code : CSE2052

Course Name : Sem VI - CSE2052 - Distributed System

Program : B.Tech. Computer Science and Engineering

Date : 15-APR-2023

Time : 9:30AM - 11:00AM

Max Marks : 60

Weightage : 30%

Instructions:

- (i) Read all questions carefully and answer accordingly.
 - (ii) Question paper consists of 3 parts.
 - (iii) Scientific and non-programmable calculator are permitted.
 - (iv) Do not write any information on the question paper other than Roll Number.
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PART A

ANSWER ALL THE QUESTIONS

(5 X 2 = 10M)

1. Mention the benefits of Distributed Multimedia systems.
(CO1) [Knowledge]
2. Define heterogeneity
(CO2) [Knowledge]
3. Define Transparency and its types in distributed systems.
(CO1) [Knowledge]
4. List out the types of ordering in Group Communication.
(CO2) [Knowledge]
5. Mention the drawbacks of interaction model.
(CO1,CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(4 X 5 = 20M)

6. We know there are two models of distributed systems: client-server and object-based model. A e-retailer wants to deploy his software as a distributed system. Which of the two models is most appropriate and why. Illustrate with example.
(CO2) [Comprehension]
7. Explain Multicasting in distributed system and its characteristics in detail.
(CO2,CO1) [Comprehension]
8. Differentiate direct and indirect communication. Explain space and time uncoupling in indirect communication with suitable examples.
(CO1) [Comprehension]

9. Define reliability in group communication? Explain why is it different than reliability in direct communication.

(CO2,CO1) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(2 X 15 = 30M)

10. Use the WWW as an example to illustrate the concept of resource sharing, client and server. What are the advantages and disadvantages of HTML, URLs and HTTP as core technologies for information browsing? Are any of these technologies suitable as a basis for client-server computing in general?

(CO1,CO2) [Application]

11. What are the advantages and disadvantages of HTML, URLs and HTTP as core technologies for information browsing? Are any of these technologies suitable as a basis for client-server computing in general?

(CO2,CO1) [Application]