

GANPAT UNIVERSITY**B. Tech. Semester: VI Computer Engineering/ Information Technology****Regular Examination April – June 2015****2CE605/2IT605: Distributed Systems****Time: 3 Hours****Total Marks: 70****Instruction:**

1. Attempt all questions.
2. Figures to the right indicate full marks
3. Each section should be written in a separate answer book

SECTION - I

Que. – 1 (A) Differentiate Network, Distributed and multiprocessor operating system. [6]

(B) Explain client server application layering with suitable example [6]

OR

Que. – 1 (A) Explain design goals of distributed systems in detail. [6]

(B) Discuss mobile code , mobile agent and web proxy model in sense of client server architecture [6]

Que. – 2 (A) Explain types of Remote Procedure Call in detail. [5]

(B) Explain various call semantics of RPC for server implementation [6]

OR

Que. – 2 (A) Discuss the role of .xdr and port-mapper in SUN RPC in brief. [5]

(B) Write and discuss the steps of implement RMI service of banking in brief. [6]

Que. – 3 (A) What do you mean by process migration and also discuss importance of process migration. [4]

(B) Discuss the major difference between process and threads. [4]

(C) Explain characteristics of distributed systems in detail [4]

[P. T.O]

SECTION - II

Que. – 4 (A) Discuss difference between Mobile Agent and RPC also write advantages of Mobile Agent. [6]

(B) What do you mean by physical clock in Distributed System? Explain centralized algorithms for clock synchronization. [6]

OR

Que. – 4 (A) Discuss the java properties that make it a good language for mobile agent programming [6]

(B) What is the important of clock synchronization in Distributed System? Explain decentralized algorithm for clock synchronization. [6]

Que. – 5 (A) Explain architecture of Google File System and its component in detail. [6]

(B) What is web service? Explain WSDL structure of web service. [5]

OR

Que. – 5 (A) Discuss the reason for generation of Replica and also discuss the concept of shadow master in Google File System. [6]

(B) What do you mean by Disconnection operation? Explain design view principals of CODA file system. [5]

Que. – 6 (A) Write a short note on "Network File System". [4]

(B) Differentiate First class and Second class replica in CODA file system [4]

(C) Explain HADOOP map reduce concept with suitable example [4]

END OF PAPER