

M.C.A.(Sem-III)

April-2023

Time: 3 Hours

Total Marks: 80

N.B.

- 1) Question Number Q.1 is compulsory.
- 2) Attempt any three questions between Q.2 to Q.6.

- Q.1** A Write a short note of the following: note Attempt **Any four** **20 M**
- 1 Workstation server model.
 - 2 RMI registry
 - 3 Clock synchronization algorithms as centralized
 - 4 Ring Algorithm
 - 5 Resource Management
- Q.2**
- A What is IPC? Explain Working of IPC and different modes of IPC? **10 M**
- B Explain categories of distributed system and Write distinguishes between token base and non-token base algorithm? **10 M**
- Q.3**
- A Illustration centralize and distributed approach for mutual exclusion with example? **10 M**
- B Explain in Details Election algorithms and The Bully Algorithm? **10 M**
- Q.4**
- A Explain Different types of Distributed Shared Memory. **10 M**
- B Explain Distributed shared memory with its architecture? and the Working of DFS? **10 M**
- Q.5**
- A Explain Business Process Management (BPM) phases and Digital process management with examples? **10 M**
- B Explain the concept of Classification of Load Balancing Algorithms What are the Issues in Load Balancing Algorithms? **10 M**
- Q.6**
- A What are type of cloud? and its Cloud based Services with example **10 M**
- B What is Azure and its Services? What are Additional services of Azure? **10 M**