Shirpur Education Society's

# R. C. PATEL INSTITUTE OF TECHNOLOGY, SHIRPUR

**An Autonomous Institute**

[ Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere ]

आर. सी. पटेल इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, शिरपूर

(स्वायत्त महाविद्यालय )

| A.Y.-2021-22 – SYBTech – Computer Engineering | |
|---|---|
| ODD SEMSTER (SEM-III) | |
| Subject-Data Structures | Sub Code- PCCO3020T |
| Day & Date- 20/01/2022 | Time- 4.00 to 5.15 pm |
| Term Test – II  -  Max Marks-15 | |

**Note- Solve any 03 out of 04**

| Q. N. | Question | Marks |
|---|---|---|
| 1 | Write algorithm for Push and Pop operation of Stack. Also Show diagrammatically. | 5 |
| 2 | Write algorithm for Insert and Delete operation of Circular Queue. Also show diagrammatically. | 5 |
| 3 | Write algorithm for Insert and Delete operation of Queue. Also show diagrammatically. | 5 |
| 4 | State and explain tower of hanoi application of stack with example of 3 disks. | 5 |