R18

# ANURAG Engineering College
## (An Autonomous Institution)
### IV B.Tech I Semester Regular/Supplementary Examinations, Dec – 2024
## CLOUD COMPUTING
### (COMPUTER SCIENCE AND ENGINEERING)

Time: 3 Hours             Max. Marks: 75

## Section – A (Short Answer type questions)     (25 Marks)
### Answer All Questions

| | | Course Outcome | B.T Level | Marks |
|---|---|---|---|---|
| 1. | Illustrate evolution of HPC and HTC systems? | CO1 | L2 | 2M |
| 2. | Summarize the fault-tolerant Cluster Configurations? | CO1 | L2 | 3M |
| 3. | Distinguish Physical versus Virtual Clusters? | CO2 | L2 | 2M |
| 4. | Explain the issues in Trust Management in Virtualized Data Centers? | CO2 | L2 | 3M |
| 5. | Explain with a diagram showing data-center networking for the cloud to access the Internet? | CO3 | L2 | 2M |
| 6. | Explain security measures in cloud service models? | CO3 | L2 | 3M |
| 7. | Explain Twister programming paradigm? | CO4 | L2 | 2M |
| 8. | Name some Virtual Appliances and their benefits? | CO4 | L1 | 3M |
| 9. | How Grids differ from conventional HPC clusters with respect to their grid nodes and cluster nodes? | CO5 | L1 | 2M |
| 10. | Summarize typical resources that are required to perform grid computing | CO5 | L2 | 3M |

## Section B (Essay Questions)
### Answer all questions, each question carries equal marks.     (5 X 10M = 50M)

| | | | | |
|---|---|---|---|---|
| 11. A) | Classify the grid systems and explain in detail? | CO1 | L3 | 10M |
| | **OR** | | | |
| B) | Evaluate the design principles of Computer Clusters? | CO1 | L3 | 10M |
| 12. A) | Explain live migration of VMs and its design issues in virtual clusters | CO2 | L2 | 10M |
| | **OR** | | | |
| B) | Explain in brief about Virtualization for Data-Center Automation? | CO2 | L2 | 10M |
| 13. A) | Explain design of modular data center? | CO3 | L2 | 10M |
| | **OR** | | | |
| B) | Explain creation and management of Virtual Machine? | CO3 | L2 | 10M |
| 14. A) | Explain about Hadoop features, architecture & running a Job in detail? | CO4 | L2 | 10M |
| | **OR** | | | |
| B) | Explain important key components of Azure cloud platform with a neat diagram? | CO4 | L2 | 10M |
| 15. A) | List and explain with neat diagram of Grid Data Access Architectural Models? | CO5 | L3 | 10M |
| | **OR** | | | |
| B) | Explain the factors involved in prediction of Grid Workload and how it effects Grid Performance? | CO5 | L3 | 10M |