

B.E./B.TECH. Degree Examination, December 2020

Seventh Semester

CS16703 – Distributed Systems and Cloud Computing

(Regulation 2016)

Time: Three hours

Maximum : 80 Marks

Answer **ALL** questions

PART A - (8 X 2 = 16 marks)

1. In which application system Distributed systems can run well?
 - a) HPC
 - b) HTC
 - c) Both A and B
 - d) None of these
2. According to the ring algorithm, links between processes are _____
 - a) bidirectional
 - b) unidirectional
 - c) both bidirectional and unidirectional
 - d) none of the mentioned
3. _____ provides virtual machines, virtual storage, virtual infrastructure, and other hardware assets.
 - a) IaaS
 - b) SaaS
 - c) PaaS
 - d) All of the mentioned
4. What are the different ways to classify an IDS?
 - a) Zone based
 - b) Host & Network based
 - c) Network & Zone based
 - d) Level based
5. How clock synchronizing is achieved in distributed systems?
6. Differentiate Shared memory and Distributed memory systems?
7. What is the purpose of heartbeat signal in hadoop?
8. Differentiate Trust and Reputation?

PART B - (4 X16 = 64 marks)

09. (a) Illustrate in detail about the Indirect communication with suitable example. (16)

(OR)

(b) Discuss and differentiate working principle of Inter Process Communication using TCP and UDP. (16)

10. (a) What is DFS? Identify and explain about various types of distributed file systems. (16)

(OR)

(b) Illustrate how local and global states are achieved with an example? (16)

11. (a) What are the pros and cons of cloud computing and discuss about the implementation levels of virtualization. (16)

(OR)

(b) Illustrate in detail about the types of virtualization in cloud computing? (16)

12. (a) What are the emerging cloud software environments? Give a detailed note on it. (16)

(OR)

(b) Examine in detail about the distributed intrusion detection and Data and Software Protection Techniques in cloud security and trust management. (16)