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Total No. of Printed Pages: [01]

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MCA (Semester – 1st)
COMPUTER NETWORKS
Subject Code: MCAPS1-101
Paper ID: 20270101

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(4 marks each)

- Q1. Explain in detail various network technologies.
- Q2. Differentiate between circuit, message and packet switching.
- Q3. Describe briefly polling and token passing.
- Q4. What is DNS? Explain its use.

Section – B

(8 marks each)

- Q5. Explain in detail various transmission impairments.
- Q6. Discuss in detail concepts of layers, protocols, interfaces and services.
- Q7. Describe leaky bucket and token bucket algorithm.
- Q8. Write note on multiplexing, de-multiplexing, flow control and buffering.

Section – C

(10 marks each)

- Q9. Explain TCP/IP reference model. Also compare it with OSI reference model.
- Q10. What is error detection and correction? Explain sliding window protocols.
- Q11. Describe IPv4, subnetting, distance vector and link state routing algorithms.