

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 16

**BCA (Sem.-3)**  
**COMPUTER NETWORKS**  
Subject Code : UGCA-1913  
M.Code : 78179

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

**SECTION-A**

**Write briefly :**

- 1) What is the difference between analog and digital transmission?
- 2) List important features of LAN.
- 3) Which network is a packet switching network? Explain.
- 4) What is the difference between error detection and error correction?
- 5) What is the difference between congestion control and flow control?
- 6) How does flow control work?
- 7) What are the CSMA access modes?
- 8) Define Hamming Distance.
- 9) What is token passing in Ring topology?
- 10) What is the difference between HTTP and FTP?

## SECTION-B

- 11) What is network topology? Discuss different network topologies.
- 12) Explain and compare the important features of circuit, message and packet switching.
- 13) What is OSI layer model? How it is different from TCP/IP?
- 14) What is CSMA? What is the difference between CSMA/CA and CSMA/CD?
- 15) a) What is the difference between Networking and Internetworking? What are the advantages of Internetworking?  
b) What is IEEE802? Explain its architecture and its various standards.
- 16) How does the leaky bucket algorithm works? How it is implemented?

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