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Total No. of Pages : 02

Total No. of Questions : 07

**BCA (Sem.-3)**  
**COMPUTER NETWORKS**  
Subject Code : UGCA-1913  
M.Code : 78179  
Date of Examination : 12-12-2022

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**

**1. Write briefly :**

- a) What is Asynchronous communication?
- b) What are the advantages of broadband?
- c) Discuss the use of packet switching.
- d) Compare TCP with UDP.
- e) What is the SMTP?
- f) What is use of Time division multiplexing?
- g) Explain the concept of congestion control.
- h) Give introduction of Cloud.
- i) What is role of client/server?
- j) Write concept of WWW.

## SECTION - B

2. How network topologies are used to connect computers in networks? Discuss their types.
3. What is need for OSI Reference model in Networking? Write description of layers.
4. Briefly explain the steps of error detection and correction on data link layer.
5. a) Write the need of IEEE 802.4 standard in networking.  
b) What is use of CSMA / CD protocol?
6. What is shortest path routing? Write in detail any one routing algorithm.
7. Discuss the design issues of session layer? What is use of remote procedure call in session layer?

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**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**