Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (Information Technology) (Sem.-4)
COMPUTER NETWORKS

Subject Code: BTIT-401-18

M.Code: 77538

Date of Examination: 20-11-2023

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

1 Answer briefly:

- a) What are the different network topologies?
- b) Why OSI model is used?
- c) What is bandwidth in network?
- d) What is the purpose of ARQ?
- e) What is meant by RARP?
- f) What is IPv6 in networking?
- g) What are virtual circuit networks?
- h) Discuss UDP Protocol.
- i) What is DDNS?
- j) Write about HTTP.

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SECTION-B

- 2. Discuss in brief the performance parameters used in transmission media.
- 3. What do you mean by error detection and correction? Discuss cyclic redundancy check.
- 4. What is forwarding routing protocol? Write about any one algorithm used in it.
- 5. What is multiplexing? Compare TDM, FDM and WDM.
- 6. How does congestion control work in computer networks?

SECTION-C

- 7. Define multiple access protocol. How CSMA/CA protocol is used to avoid the collision in networks?
- 8. What is the use of QoS in networking? Discuss the Leaky Bucket Algorithm.
- 9. Explain how Cryptography is used to enhance security in Computer Networks?

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

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