Total No. of Pages :02

Total No. of Questions : 09

B.Tech.(EE)(2019 Onwards E-II) (Sem.-7,8) NETWORK AND DATA COMMUNICATION Subject Code : BTEE-804E

M.Code: 71940

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. 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. Distinguish between Serial and Parallel Data Transmission.
 - b. What is the bandwidth of fiber optics?
 - c. Define the terms it rate and baud rate. Give the relation between them.
 - d. What are the different types of errors in data communication?
 - e. Differentiate between circuit switching and packet switching.
 - f. Explain frequency Reuse principle.
 - g. Why checksum field is optional in the case of IP protocol?
 - h. What is the class of 221.23.45.67 IP address? Explain.
 - i. Which layer provides end-to-end connectivity from host-to-host?
 - j. Which MAC layer protocol is used by 802.11 WLAN?

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SECTION-B

- 2. What are the different causes of transmission impairments? Discuss in detail.
- 3. Differentiate between circuit switching and packet switching.
- 4. Describe about various digital-to-digital signal encoding techniques.
- 5. Explain CRC with an example. How does single bit error differ from a burst error?
- 6. Describe the difference between cable modems and standard voice band modems.

SECTION-C

- 7. a. Explain CRC with an example. How does single bit error differ from a burst error?
 - b. Discuss in detail internet protocol (IP) header of TCP/IP protocol suite.
- 8. Explain the OS1 Network architecture specifying the functions of each layer.
- 9. a. With a neat diagram, explain FDM with respect to multiplexing and demultiplexing, and mention its applications.
 - b. Discuss spread spectrum way of data communication in detail. Explain different techniques employed under this technique.

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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How.

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