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# PGDCA DATA COMMUNICATION AND NETWORKS

Subject Code: PGDCA-204 M.Code: 50513

Time: 3 Hrs. Max. Marks: 60

#### **INSTRUCTIONS TO CANDIDATES:**

- 1. Attempt all Questions from the Section-A.
- 2. Attempt any FOUR Questions from Section-B.
- 3. Attempt any TWO Questions from Section-C.

## **SECTION-A**

## 1. Write briefly:

- a) Explain the concept of CRC.
- b) What is a layer in OSI reference model?
- c) What are the functions of a layer?
- d) What is network standardization?
- e) What do you mean by the data rate of a channel?
- f) Name various routing algorithms.
- g) What is an IP address? Explain.
- h) What is a window in sliding window protocol?
- i) What are the advantages and disadvantages of fiber optic cable?
- j) What is buffering?

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## **SECTION-B**

- 2. Explain the concept of error detection and correction.
- 3. Compare circuit *Vs* Packet *Vs* Message switching types.
- 4. What are the design issues in Data link layer?
- 5. Explain TCP connection management in detail.
- 6. Explain IEEE 802 standard for LAN.

## **SECTION-C**

- 7. What is multiplexing? What are its types? Explain in detail all types with their characteristics, advantages and limitations.
- 8. Explain the OSI reference model in detail with functioning of each layer.
- 9. Explain leaky and token bucket algorithms in detail.

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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