

**T.Y. B. SC. (Computer Science) SEM –V (CBCS - 2016 COURSE) :**  
**SUMMER - 2019**  
**SUBJECT: 1) DATA COMMUNICATION AND NETWORKING-I**

**Day:** Wednesday  
**Date:** 24/04/2019

**S-2019-1110**

**Time:** 11.00 AM TO 02.00 PM  
**Max. Marks:** 60

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**N.B:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
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**Q.1** Answer **ANY TWO** of the following: **(12)**

- a) Describe the functionality of TCP/IP model with suitable diagram.
- b) Differentiate between LAN and WAN.
- c) Explain the following transmission media.
  - i) Fiber Optic Cable
  - ii) Co-axial cable

**Q.2** Answer **ANY TWO** of the following: **(12)**

- a) Describe various types of transmission mode.
- b) Describe Frequency and time division multiplexing in brief.
- c) Write a note on Asynchronous Transmission.

**Q.3** Answer **ANY TWO** of the following: **(12)**

- a) What is piggybacking technique? Explain in detail.
- b) Discuss the concept of Token Bus in detail.
- c) Differentiate between baseband and broadband transmission.

**Q.4** Answer **ANY THREE** of the following: **(12)**

- a) What are the Advantages and disadvantages of peer-to-peer network?
- b) What is FDDI? Explain in detail.
- c) State and explain services provided by network.
- d) What is Ethernet? State its features.

**Q.5** Answer **ANY FOUR** of the following: **(12)**

- a) Define the term router and bridge.
- b) Differentiate between point to point and broadcast technologies.
- c) Write a note on gigabit Ethernet.
- d) Explain any two network topologies.
- e) Explain File transfer and Hypertext transfer protocol.
- f) What is UDP? Explain.

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