

**T.Y.B.SC. (Computer Science) SEM –V (2014 COURSE) : WINTER -
2018**

SUBJECT: DATA COMMUNICATION & NETWORKING

Day : Friday
Date : 12/10/2018

W-2018-0967

Time: 12.00 NOON TO 02.00 PM
Max. Marks: 40

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat diagrams **WHEREVER** necessary.
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Q.1 Answer **ANY TWO** of the following: **(10)**

- a) Differentiate between point-to point and broadcasting.
- b) Elaborate the need of networking. Also state its advantages and disadvantages.
- c) Draw and explain TCP/IP reference model.

Q.2 Answer **ANY TWO** of the following: **(10)**

- a) Describe switched and leased lines in detail.
- b) What is satellite communication? State its features.
- c) Explain Token Ring management in detail.

Q.3 Answer **ANY TWO** of the following: **(10)**

- a) Write a note on ATM and Arcnet.
- b) Elaborate the role of a network adapter.
- c) Differentiate – Multiplexer and Demultiplexer.

Q.4 Answer **ANY FIVE** of the following: **(10)**

- a) Define – bridge and gateway.
- b) What is bandwidth? What is its measure?
- c) Draw and explain ring and star topology.
- d) What is SMTP? What are its features?
- e) Give the functioning of physical layer of OSI reference model.
- f) What is the purpose of a device driver?
- g) What is SONET?

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