

T.Y.B.SC. (COMPUTER SCIENCE) SEM –V (2014 COURSE) :
WINTER - 2017

SUBJECT: DATA COMMUNICATION & NETWORKING

Day: Friday
Date: 27/10/2017

Time: 03.00 PM TO 05.00 PM
Max. Marks: 40

W-2017-0757

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: **[10]**

- a) Explain ISO OSI model with diagram.
- b) Differentiate between switched line and leased line.
- c) Describe any two transmission media.

Q.2 Answer Any **TWO** of the following: **[10]**

- a) Define Topology. Draw all possible topologies.
- b) Compare and contrast UDP and TCP.
- c) What is Bluetooth? State its architecture.

Q.3 Answer Any **TWO** of the following: **[10]**

- a) State the purpose of FTP and TELNET.
- b) What is routing? State types of routing.
- c) Describe pure ALOHA and Slotted ALOHA in detail.

Q.4 Answer Any **FIVE** of the following: **[10]**

- a) Define broadcasting.
- b) What is virtual circuit?
- c) State any four goals of Networking.
- d) Give difference between LAN and WAN.
- e) What is Ethernet?
- g) State Shanon's law for noisy channel.

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