

B.TECH SEM – VII (2007 COURSE) (ELECTRONICS ENGG.) :

SUMMER - 2018

SUBJECT : COMPUTER NETWORK

Day : **Thursday**
Date : **24/05/2018**

S-2018-2786

Time : **02.30 PM TO 05.30 PM**
Max. Marks : 80

N.B. :

- 1) Q. No. 1 and Q. No. 5 are **compulsory**. Out of the remaining attempt any **Two** questions from each section.
- 2) Figures to the right indicate **full** marks.
- 3) Answers to both the sections should be written in **separate** answer book.
- 4) Assume suitable data if necessary.

SECTION – I

- Q. 1**
- a) Illustrate Open System Interconnection (OSI) using block diagram. **(05)**
 - b) How stop and wait protocol is implemented? **(05)**
 - c) Describe the concept of switching and forwarding. **(04)**
- Q. 2**
- a) Describe cost effective resource sharing in the computer network. **(07)**
 - b) What is concept of LAN, MAN & WAN? **(06)**
- Q. 3**
- a) What are the different hardware building blocks in network design? **(07)**
 - b) Describe token ring and its maintenance. **(06)**
- Q. 4**
- a) What is ATM Adaption Layer (AAL)? **(07)**
 - b) Write in brief about sliding window protocol. **(06)**

SECTION – II

- Q. 5**
- a) What is the UDP protocol? **(05)**
 - b) Describe Fast Retransmit & Fast recovery mechanism in congestion control. **(05)**
 - c) What is MIB in SNMP? **(04)**
- Q. 6**
- a) Mention lossless compression algorithms. Illustrate any one. **(07)**
 - b) Discuss the working of RPC protocols. **(06)**
- Q. 7**
- a) How congestion can be handled using TCP? **(07)**
 - b) What are the issues in resource allocation for congestion control? **(06)**
- Q. 8**
- a) Describe the concept of integrated services. **(07)**
 - b) Write a note on SNMP. **(06)**

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