B.Tech Sem – VII (2007 Course) (Electronics Engg.) : SUMMER - 2019
SUBJECT : COMPUTER NETWORK

Day : Tuesday	S-2019-3189	Time : 02.30 PM TO 05.30 PM
Date : 14/05/2019		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 ꜱꞮꞬꞬ same answer book.
4) Assume suitable data if necessary.

SECTION – I

Q. 1	a)	What are the requirements in building a network?	**(05)**
	b)	Give brief overview of leading wireless technologies.	**(05)**
	c)	Describe the role of bridges and LAN switches.	**(04)**

Q. 2	a)	Explain the concept of LAN, MAN and WAN.	**(07)**
	b)	Describe the OSI network architecture with diagram.	**(06)**

Q. 3	a)	Describe the hardware building blocks in design of networks.	**(07)**
	b)	What are the various encoding techniques?	**(06)**

Q. 4	a)	How does the virtual circuit switching take place in the network?	**(07)**
	b)	Explain concept of cell switching in ATM.	**(06)**

SECTION – II

Q. 5	a)	Describe internet's User Datagram Protocol (UDP)	**(05)**
	b)	Illustrate with example TCP congestion control protocol.	**(05)**
	c)	Give brief overview of SNMP.	**(04)**

Q. 6	a)	Describe Complete RPC mechanism with block diagram.	**(07)**
	b)	Write note on data compression techniques.	**(06)**

Q. 7	a)	What is resource allocation mechanism and queuing disciplines?	**(07)**
	b)	How congestion in the networks can be avoided?	**(06)**

Q. 8	a)	What are the different web services?	**(07)**
	b)	Describe latency and throughput issues in high speed networking.	**(06)**

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