B.Tech Sem – VII (2007 Course) (Electronics Engg.) : WINTER - 2018

SUBJECT : COMPUTER NETWORK

Day : Friday | Time : 02.30 PM TO 05.30 PM

Date : 30/11/2018 | **W-2018-2924** | 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)**	Describe TCP/IP internet architecture.	**(05)**
	b)	What are different encoding techniques?	**(05)**
	c)	Explain virtual circuit switching with example.	**(04)**
Q. 2	**a)**	How network software is implemented?	**(07)**
	b)	What are the requirements & applications for computer networks?	**(06)**
Q. 3	**a)**	Explain the Cyclic Redundancy Check (CRC) code.	**(07)**
	b)	Describe sliding window algorithm.	**(06)**
Q. 4	**a)**	How does IP addressing take place?	**(07)**
	b)	What is Dynamic Host Configuration Protocol (DHCP)?	**(06)**

SECTION – II

Q. 5	**a)**	Describe TCP state transition diagram.	**(05)**
	b)	What are the different queuing algorithms?	**(05)**
	c)	Write in brief about MIB variables in SNMP.	**(04)**
Q. 6	**a)**	Describe complete RPC mechanism.	**(07)**
	b)	Enlist different data compression techniques. Illustrate any one.	**(06)**
Q. 7	**a)**	Describe congestion avoidance mechanism.	**(07)**
	b)	Write a note on virtual clock.	**(06)**
Q. 8	**a)**	Write a note on SNMP.	**(07)**
	b)	Describe Resource Reservation Protocol (RSVP) in detail.	**(06)**

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