Code No: RT32053 **R13** SET - 1

III B. Tech II Semester Supplementary Examinations, November-2018

COMPUTER NETWORKS

(**Common to** Computer Science Engineering and Information Technology)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1	a)	Match the following to one or more layers of the TCP/IP protocol suite: i) Creating a user datagram ii) Responsibility for handling frames between adjacent nodes iii) Transforming bits to electromagnetic signals	[4M]
	b)	Distinguish between synchronous and statistical TDM.	[4M]
	c)	What is the meaning of P/F field in HDLC control field?	[3M]
	d)	What is ALOHA? Compare different ALOHA protocols.	[4M]
	e)	Which Ethernet standard supports full duplex transmissions and how?	[3M]
	f)	What is a URI? What are its components? IS URL same as URI.	[4M]

PART -B

2	a)	What is a network? Explain the different parameters for measuring the performance of a network?	[6M]
	b)	Explain OSI reference architecture in detail.	[10M]
3		What is Multiplexing? List and explain three multiplexing techniques in detail.	[16M]
4	a)	Explain Sliding window protocols in detail.	[10M]
	b)	Calculate the polynomial checksum for the following frame and generator Frame: 1101011011and Generator: x^4+x+1	[6M]
5	a)	Explain different controlled access protocols in detail.	[6M]
	b)	Compare Virtual circuit and Datagram subnets.	[4M]
	c)	Explain Flooding algorithm.	[6M]
6	a)	Explain IEEE 802.3 protocol and its frame format.	[8M]
	b)	Explain the commonly used media in Ethernet –based LAN in detail.	[8M]
7	a)	Explain web client (browser) architecture.	[6M]
	b)	What is HTTP? Explain Nonpersistent and Persistent connections of HTTP.	[10M]

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