## **SVKM'S NMIMS**

## MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT ENGINEERING / SCHOOL OF TECHNOLOGY MANAGEMENT ENGINEERING

Program MBA.Tech (COMPUTER)

Year: II - Semester:IV

AcademicYear: 2018-2019

Subject: Computer Networks

Marks: 70

Date: 18 June 2019

Time:2.00 pm to 5.00 pm

Duration: 3 (hrs)
No. of Pages:

## Re Examination (2018-19)

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

- 1) Question No.1 is compulsory.
- 2) Out of remaining questions, attempt any 4 questions.
- 3) In all 5 questions to be attempted.
- 4) All questions carry equal marks.
- 5) Answer to each new question to be started on a fresh page.
- 6) Figures in brackets on the right hand side indicate full marks.
- 7) Assume suitable data if necessary.



- 1.
- a) Draw & compare ISO-OSI model & TCP/IP reference model.

[5]

b) List & explain any 5 internetworking devices.

- [5]
- c) Sketch the Manchester & Differential Manchester encoding for the bit stream: 0001110101.
- [4]

[7]

2.

3.

- a) Explain various types of wired transmission Media and Compare their performance.
- b) What is Switching? Differentiate Packet, Message and Circuit Switching. [7]
- b) What is Switching: Differentiate I acket, Wessage and Circuit Switching.
  - a) Explain Framing. Explain Character count & Byte stuffing framing techniques with example.
  - b) Prepare Hamming code for bit pattern 100110. How many check bits are included? At the receiver detect the error using hamming code if 7<sup>th</sup> bit is flipped in received data (use even parity). [7]

4.			
	a)	Differentiate between Go-back N & Selective repeat protocol. Also give example explain each of them.	ning [7]
	b)	How does CSMA protocol resolves channel allocation problem? Explain any two version carrier sense protocols.	ns of [7]
5.		Describe Leaky bucket algorithm in detail. What are its advantages and disadvantages?	[7]
	a) b)	Describe Leaky bucket algorithm in detail. What are its advantages and disadvantages.  Describe Distance Vector routing with example. How it leads to count-to-infinity problem.  Explain.	
6.	a)	Draw & explain IPv4 header format.	[7]
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7.		a note on (any roar).	[14]
	a) b)	HTTP QOS	
	c)	Architecture of Internet	
	d) e)	UDP DNS	
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