## SVKM'S NMIMS MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING

Programme: MBA Tech (Computer) Year: II Semester: IV

Batch: 2017-18

Academic Year: 2017-2018

Subject: Computer Networks

Marks: 70

Date: 29 June 2018

Marks: 70

Time: 2.00 pm to 5.00 pm

Re-Examination

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.
- Explain the differences between OSI model and TCP/IP model. [4] 1. a Explain different network topologies. [4] What is the Principal difference between connectionless and connection oriented [4] communication? [2] d What is the function of SMTP? How does MIME enhance SMTP? [8] Explain the ISO/OSI reference model. Explain the following error detection techniques. [6] i) Checksum ii) CRC What is a transmission medium? Explain its types in detail. [7] 3 Explain the significance of Switching. What are different switching techniques? [7] Discuss different services of transport layer. [7] 4 a [7] Explain Dijkstra's shortest path algorithm with example.

, 5	a	What is ALOHA? Explain CSMA protocols in detail.	[7]
	b	Differentiate between IPV 4 & IPV 6.	[7]
6	a b	Explain the working of stop- and- wait flow control protocol.  Explain the features of transmission control protocol. Draw and explain header of TCP.	[7] [7]
7	a. b.	What do you understand by HTTP protocol? Explain its working. What is Virtual LAN? Explain key benefits of implementing VLAN. What is DNS?	[7] [4] [3]