Code: CSCS2T4

## I M.Tech - II Semester - Regular/Supplementary Examinations JULY 2017

## COMPUTER NETWORKS (COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours Max Marks: 70 Answer any FIVE questions. All questions carry equal marks 1. a) What are the five layers in Internet Protocol Stack? Specify the principle responsibilities of each Layer. 9 M 5 M b) Explain the evolution of the Internet. 2. a) What are the services provided by the Application Layer? 7 M b) Specify the general formats of HTTP Request and HTTP 7 M Response Messages. 3. a) Discuss about Connection less Transport Protocol. 9 M b) What are the principles of reliable data transfer? 5 M 4. a) Explain Dijkstra's routing Algorithm with an example. 9 M

	b) Write the structure of IP Header format and explain the purpose of each field.	ne 5 M
5.	a) Explain CSMA with collision detection and collision avoidance.	9 M
	b) Differentiate between pure ALOHA and slotted ALOI	HA. 5 M
6.	Explain different types of Guided and Unguided media.	14 M
7.	a) Write short notes on Lossy compression and Loss less Compression.	7 M
	b) What are different types of real time interactive protoc Explain in detail.	cols?
8.	a) How Security can be achieved in Application Layer, Transport Layer and Network Layer? Explain.	9 M
	b) Discuss about Packet filter firewall and Proxy firewall	l. 5 M