

## Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India (Autonomous College Affiliated to University of Mumbai)

## **End Semester Examination**

May 2018

Max. Marks: 100

Class: FYMCA Course Code: MCA22

Name of the Course: Computer Networks

Duration: 3 Hrs Semester:II

Branch: MCA

## Instruction:

(1) All questions are compulsory

(2) Draw neat diagrams

(3) Assume suitable data if necessary

Q No.	Question	Max. Marks	CO
014)	Compare Shannon and Nyquist Theorem with help of an example	10	CO1
Q.1 A)	Illustrate various transmission impairments	10	CO1
Q.1 B) Q.2 A)	List different types of Email protocol and explain in brief any one	10	CO3
Q.2 B)	Explain four way handshake protocol	10	CO3
Q. 3 A)	A block of addresses is granted to a small organization. We know that one of the addresses is 205.16.37.39/28. 1. What is the first and the last address in the block 2. Find the number of addresses?	10	CO3
	OR		•
Q. 3 A)	Summarize the use of Internet Group Management Protocol	10	CO3
Q.3 B)	Demonstrate the working of open shortest path first with an example	10	CO4
	OR		
Q. 3 B)	Demonstrate the working of spanning-tree with an example	10	CO4
Q.4 A)	Outline the structure of TCP segment and UDP segment	10	CO3
Q.4 B)	Interpret the different ways of translating IPv4 to IPv6	10	CO3
Q.5 A)	Illustrate the working of Stop n Wait ARQ protocol .	10	COS
	OR		
Q.5 A)	Illustrate the working of Go n Back ARQ protocol	10	CO
Q.5 B)	Explain any two different wired media	10	CO
	OR		
Q.5 B)	Explain any two different wireless media	10	CO