



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examinations (December 2018)

School: School of Information Technology

Course: Computer Networks

Semester: 3

Max Marks: 30

Program: BCA (CTIS+MACT)

Course Code: CSC203

Duration (mins): 60

Note- 1. Figure to the right indicates full marks.

2. Attempt any three questions.

Q1)

- a) Difference between Hub and Switch. (5)
- b) Write Syntax and also explain functionality of following commands: ping, tracert, ipconfig, nslookup, netstat. (5)

Q2)

- a) What do you mean Adhoc Network? (2)
- b) Suppose you are working as Network Administrator and you have to connect 15 devices in the network. Which topology will you prefer among Star Topology and Bus Topology, for setting up your network? And why? (8)

Q3)

- a) Write the names of layers of OSI and TCP/IP model. (2)
- b) Write the IP address range of Class A, B, C, D and E. (2)
- c) Calculate First Address and Last Address of such a network whose one of the IP address is 163.34.5.2 (6)

Q4)

- a) Calculate subnet mask using host bits, each having 17 devices. How many subnets can be formed? What will be the subnet address? Also calculate IP addresses of all devices, present in all subnets. Given the network address as 193.12.13.0 (5)
- b) Difference between Packet Switching, Circuit Switching and Message Switching. (5)

Q5)

- a) What is the difference between Authentication and Authorization. (2)
- b) Explain the functions of layers of OSI model, in brief. (8)