Sanjay Ghodawat University, Kolhapur 2018-19

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017 EXM/P/09/01

Year and Program:2018-19 **School of Technology** **Department of SY B.Tech**

Course Code: CST214 **Course Title: Computer Networks** **Semester – IV**

Day and Date Thursday 2/1/20 **End Semester Examination (ESE)** **Time:** 3hr **Max Marks: 100**

10.30 am to 1.30 pm

Instructions:
1) All questions are compulsory.
2) Assume suitable data wherever necessary.
3) Figures to the right indicate full marks.

		Marks	Bloom's Level	CO
Q.1	**Solve any Two**			
a)	Explain FDMA with suitable example.	08	L_2	CO2
	OR			
a)	What are the advantages of fiber optic cable? Explain the modes of operation.	08	L_2	CO1
b)	Illustrate various components of fiber optics in detail.	07	L_2	CO1
	OR			
b)	What is Multiplexing? Explain Code & Time Division Multiplexing	07	L_2	CO2
Q.2	**Solve any Two**			
a)	Explain Stop & Wait ARQ Protocol	07	L_2	CO2
	OR			
a)	Explain Go-Back N Protocol	07	L_2	CO1
b)	Elaborate the error correction and detection techniques in the data link layer	08	L_3	CO2
	OR			
b)	Explain Token Ring with suitable diagrams	08	L_2	CO2
Q.3	**Solve any Two**			
a)	Compare in between Circuit Switching and Packet Switching.	08	L_2	CO3
b)	Explain OSPF Protocol in detail.	08	L_2	CO3
c)	Explain DHCP Protocol in detail.	08	L_2	CO3

Q.4		**Solve any Two**			
	a)	Why there is need for congestion control? What are the different mechanisms implemented to avoid congestion in the network?	09	L_3	CO4
	b)	Describe IPV4 header format in detail	09	L_3	CO4
	c)	Draw and explain IPv6 header format in logical addressing	09	L_3	CO4
Q.5		**Solve any Two**			
	a)	Draw and explain datagram oriented UDP packet format.	09	L_3	CO5
	b)	Describe TCP header format in detail.	09	L_3	CO5
	c)	Define Quality of Service. Illustrate different service according to flow characteristics.	09	L_2	CO5
Q.6		**Solve any Three**			
	a)	What is difference between FTP and TELNET?	06	L_2	CO6
	b)	Explain application protocol standard for Email.	06	L_2	CO6
	c)	Write a note on SNMP.	06	L_2	CO6
	d)	Explain the need for the DNS and describe the protocol functioning	06	L_2	CO6

*****

ESE