U.S.N					



P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Third Semester, Master of Computer Applications (MCA) Semester End Examination; Dec - 2017/Jan - 2018 **Computer Networks**

Time: 3 hrs Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

	UNIT - I					
1 a.	Define Internet. Explain with a neat diagram.	10				
b.	Explain different types of guided transmission media.	10				
2 a.	2 a. What is delay? Narrate various types of delay.					
b.	With a neat figure, explain the functions of each layer of TCP/IP protocol model.	10				
	UNIT - II					
3 a.	3 a. Explain general format of HTTP request message.					
b.	Explain how FTP moves files between local and remote file systems? Give pictorial representation.	10				
4 a.	Explain the services provided by DNS.	10				
b.	Explain the interaction of the various DNS services.	10				
	UNIT - III					
5 a.	List and explain the duties of Transport layer.	10				
b.	b. Explain multiplexing and de-multiplexing in Transport layer.					
6 a.	Explain the typical sequence of TCP states visited by a client TCP.	10				
b.	Explain congestion control in TCP.	10				
	UNIT - IV					
7 a.	Discuss virtual-circuit networks.	10				
b.	With neat diagram, explain IPV4 datagram format.	10				
8 a.	Explain Distance-Vector routing algorithm.	10				
b.	Explain the broadcast along a spanning tree.	10				
	UNIT - V					
9 a.	Explain the services offered by a link-layer protocol.	10				
b.	o. Explain the Frame structure of Ethernet.					
10 a.	Explain the differences between wired link and wireless link.	6				
b.	Explain IEEE 802.11 LAN architecture.	6				
c.	Briefly explain the Frame format of 802.11.	8				