U.S.N					



1

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

(An Autonomous Institution affiliated to VTU, Belagavi)

Sixth Semester, B.E. - Computer Science and Engineering Semester End Examination; May / June - 2018 Computer Networks

Time: 3 hrs Max. Marks: 100

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

UNIT - I

	UNII - I					
1 a.	With a neat diagram, explain the datagram approach of a connectionless service.	10				
b.	Illustrate data transfer phase of a virtual circuit with an example.					
2 a.	With a neat sketch, explain the working operation of NAT and DHCP.					
b.	Write a note on mobile IP addressing.	10				
	UNIT - II					
3 a.	a. Illustrate spanning trees in path vector routing algorithm with an example.					
b.	b. What is protocol Independent multicast? Explain.					
4 a.	a. With a neat diagram, explain IPV6 datagram.					
b.	Write a note on Multicast Link State (MOSPF).	10				
	UNIT - III					
5 a.	Explain transport layer protocol encapsulation and de-capsulation.	10				
b.	Explain UDP with packet format.	10				
6 a.	Explain flow control at the transport layer with a neat diagram.	10				
b.	Explain TCP segment format with a neat diagram.	10				
	UNIT - IV					
7 a.	Explain flow diagram for iterative UDP communication.	10				
b.	Write a note on HTTP protocol message format.	10				
8 a.	Write a note on SNMP PDU.	10				
b.	With a neat diagram, explain the architecture of E-mail.	10				
	UNIT - V					
9 a.	What are the goals of security? Explain the taxonomy of attacks with relation to	10				
	security goals.	10				
b.	Explain token bucket.	10				
0 a.	Illustrate Transposition cipher with an example.					
h	Write a note on Encapsulating Security Payload (ESP)					