## ME[Comp] SemI CHOICE BASED May 2017 Sub: ACND Dab: 18/5/17

Q.P. Code: 13461

(Tir	me Duration: 3hrs)	(Marks: 80)
	<ol> <li>Question No 1 is compulsory.</li> <li>Attempt any three out of the remaining five questions.</li> </ol>	6
Q1.	(a) How can a network effectively and fairly allocate its resources?	05
	(b) Explain the concept of additive increase mechanism of TCP	05
	(b) Define scalability, availability and reliability	05
	(d) What is hidden terminal and exposed terminal problem?	05
Q2.	(a) Discuss best practices of campus area network design.	10
	(b) Explain the phases of the PPDIOO network life cycle.	10
Q3.	. (a) Compare the different IPv4 routing protocols	10
	(b) Explain multicast, unicast and anycast addresses in IPV6.	10
Q4.	. (a) What are the objectives of an effective WAN design? Describe the different	ent 10
	WAN Link Categories and their characteristics.	
	(b) What are the disadvantages of the binary exponential back off mechanism in MACA? How are they overcome in MACAW?	used 10
Q5.	<ul> <li>(a) Explain dynamic source routing (DSR) protocol in detail along with its advantages and disadvantages.</li> </ul>	10
	(b) Explain the role of DR and BDR in OSPF. How are the DR and BDR elec-	cted? 10
Q6.	. Write short notes on: (any two):	20
	i) WAN transport technologies	20
	ii) TCP congestion control mechanisms	*
	iii) WLAN design	
	iv) Software Defined Networking.	