

Answer ALL Questions

11. a) With a neat sketch describe the architecture of IEEE 802.11 and <sup>13,K2,CO1</sup> explain the MAC management techniques.

## OR

- b) Construct the architecture and protocol stack of Bluetooth technology. 13,K2,COI
- 12. a) Illustrate with a neat diagram and example destination sequence <sup>13,K2,CO2</sup> distance vector (DSDV) algorithm of Adhoc networks.

## OR

b) State the entities and terminologies used in mobile IP along with <sup>13,K2,CO2</sup> tunneling and also explain the three types of encapsulation mechanisms used in mobile IP.

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 11517

13.	a)	Elaborate on UMTS core network architecture with a neat sketch. <b>OR</b>	13,K2,CO3
	<b>b</b> )		13.K2.CO3
	b)	Evaluate the architecture of generic TD-SCDMA network.	15,K2,CO5
14.	a)	Outline the WLAN adaptation function in tight coupling architecture	13,K2,CO4
		and explain with an appropriate diagram. OR	
	b)		13,K2,CO4
	0)	Examine the multichannel multipoint distribution system (MMDS). Distinguish it with LMDS.	15,82,004
15.	a)	Analyze the key challenges faced by 4G networks and also propose	13.K2.CO5
15.	a)	solutions of how to mitigate those challenges.	15,112,005
		OR	
	b)	Describe the functions and architecture of LTE.	13,K2,CO5
		PART - C (1 × 15 = 15 Marks)	
16.	a)	Describe the components of the MMDS architecture.	15,K2,CO6
		OR	
	b)	Determine the categories of MVNO and explain the architecture in	15,K2,CO6

detail.

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 11517 2