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Question Paper Code : 70161

M.E./M.Tech. DEGREE EXAMINATION, APRIL/MAY 2018
Second Semester
Computer Science and Engineering
CP 5201 – NETWORK DESIGN AND TECHNOLOGIES
(Regulations 2017)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. Define Multiplexing.
2. What do you mean by Firewalls ?
3. Examine the advantages of Wi-MAX.
4. Compare WLAN and UMTS.
5. Outline the UMTS security.
6. Distinguish between GPRS and EDGE.
7. List out the advantages of 4G.
8. What is green wireless network ?
9. What do you mean by SDN ?
10. What are the two key roles played by SDN controllers ?

PART – B

(5×13=65 Marks)

11. a) i) Explain the concept of shared media networks. (7)
ii) Describe in detail about the remote access technologies and devices. (6)

(OR)

- b) What are the components required for designing a network ? Explain.



12. a) Describe the architecture of mobile WiMAX IEEE 802.16e.

(OR)

b) Explain the network infrastructure and wireless LAN.

13. a) Discuss small screen web browsing is done over GPRS and EDGE.

(OR)

b) Compare Mobility Management and Session Management.

14. a) Discuss in detail about the mobility management and power optimization.

(OR)

b) Explain hybrid 4G wireless networks protocols.

15. a) Describe the centralized and distributed control of SDN.

(OR)

b) Explain the design of software defined network framework.

PART – C

(1×15=15 Marks)

16. a) Describe about the various technologies in the wireless domain.

(OR)

b) i) Analyze the various protocols of wireless and cellular networks. (8)

ii) Discuss the salient features of 4G and 5G networks. (7)
