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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

 $(10\times2=20 \text{ Marks})$

- 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

 $(5\times13=65 \text{ Marks})$

11. a) i) Explain the concept of shared media networks.

(7)

(6)

ii) Describe in detail about the remote access technologies and devices.

(OR)

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



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

-(7)

(8)