

G 1724

(Pages : 2)

Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2016

Eighth Semester

Branch : Computer Science and Engineering

CS 010 804 L06—ADVANCED NETWORKING TRENDS (Elective III) (CS)

(New Scheme—2010 Admission onwards)

[Regular/Supplementary]

Time : Three Hours

Maximum : 100 Marks



Part A

*Answer all questions.
Each question carries 3 marks.*

1. Draw the frame format of Ethernet.
2. An AAL1 layer receives data at 2Mbps. How many cells are created per second by ATM layer ?
3. Differentiate between infrared and radio transmission.
4. What is self configuration and autoconfiguration ?
5. What is Hybrid TDMA / FDMA ?

(5 × 3 = 15 marks)

Part B

*Answer all questions.
Each question carries 5 marks.*

6. Explain the following with respect to fast Ethernet :
(a) 100BASET4 ; and (b) 100BASETX.
7. Write a short note on ATM cell header format.
8. With the neat diagram briefly explain Bluetooth protocol stack.
9. What is the scope of mesh 802.11s ?
10. What is Flooding and what are its disadvantages ?

(5 × 5 = 25 marks)

Part C

*Answer all questions.
Each question carries 12 marks.*

11. Explain gigabit Ethernet in detail.
- Or*
12. What is ISDN ? Explain its protocol architecture.

Turn over

13. What are the various ATM signaling used ? Explain in detail.

Or

14. With the neat diagram, explain ALL3/4 and AAL5 layers of AAL.

15. Explain 802.11 architecture and protocol architecture with a neat diagram.

Or

16. What are the collision avoidance methods used in IEEE802.11 ?

17. Explain the architecture of 802.11s.

Or

18. Explain the concept of Vehicular Mesh network.

19. How do we measure the quality of sensor network ?

Or

20. Explain the following issues with respect to sensor networks :

(a) Synchronization ; and (b) Transport layer issues.

(5 × 12 = 60 marks)

