

G 1270

(Pages : 2)

Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2016

Eighth Semester

Branch : Electrical and Electronics Engineering

COMPUTER NETWORKS (E) Elective III

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 4 marks.

1. What is TCP/IP protocol architecture ? Explain.
2. Write a short technical note on LAN and WAN.
3. Briefly describe the services provided by the data link layer.
4. What is framing ? Explain the frame format of PPP.
5. Explain the functions of a bridge in computer network.
6. What is the access method used by wireless LANs ?
7. What do you mean by congestion control ?
8. Find the class of the following IP addresses :
 - (a) 208.34.54.12
 - (b) 114.34.2.8
 - (c) 129.14.6.8
 - (d) 238.34.2.1
9. Explain about e-mail architecture and services.
10. What is meant by FTP ? Explain.

(10 × 4 = 40 marks)

Part B

Answer all questions.

Each full question carries 12 marks.

11. (a) What is packet switching ?
(b) Explain two different approaches of packet switching ?

Or

12. Draw the OSI reference model and explain the functions of different layers.

Turn over

13. (a) What is sliding window protocol ?
(b) Differentiate between stop-and wait ARQ and Go-back-N protocol.

Or

14. Explain the various error detection and error correction methods.
15. Distinguish between CSMA/CA and CSMA/CD.

Or

16. (a) Explain the architecture and Frame format of FDDI.
(b) What are the different types of cabling supported by Ethernet standard ?
17. (a) What are the various classes of IP addressing ?
(b) Calculate the maximum number of class A, B and C network Ids.

Or

18. (a) Why transport layer protocols like TCP and UDP are called end-to-end protocols. What is the difference between them ?
(b) What is routing. Explain any one routing algorithm.
19. (a) How does DNS work ? Which are the generic domains ?
(b) Explain about URL.

Or

20. (a) Describe the various network management concepts.
(b) What is cryptography ?

(5 × 12 = 60 marks)