



22524/E240

Reg. No.

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V Semester B.C.A. 2 Examination, Oct./Nov. 2013
COMPUTER NETWORKS (Regular)

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) **All Sections are compulsory.**
2) **Draw neat diagrams wherever necessary.**

SECTION – A

Answer **any ten** of the following :

(10×2=20)

1. Define the term Computer Network.
2. What is ring topology ?
3. What is a subnet ?
4. Define pipelining.
5. What is meant by the term protocol ?
6. Differentiate between adaptive and non-adaptive routing algorithms.
7. Mention the drawbacks of flooding.
8. What is a browser ? Give examples.
9. What is a modem ?
10. Enlist the fields in UDP header.
11. Mention the functions of Presentation layer.
12. What is Hamming Code ?

P.T.O.



SECTION – B

Answer **any six** of the following :

(6×5=30)

1. Explain the optical fiber transmission medium with neat diagram.
2. Differentiate between Packet switching and Circuit switching.
3. Describe the Go-back-N protocol.
4. What are factors causing congestion ? Explain the choke packet method for congestion control.
5. Explain the ALOHA protocol for medium access control.
6. With a neat diagram, discuss the various fields in a TCP segment header.
7. Write a note on Internet working.
8. Explain the single parity check method for error detection.

SECTION – C

Answer **any three** of the following :

(3×10=30)

1. Explain the TCP/IP reference model in detail.
 2. Describe the Link state routing algorithm.
 3. Discuss the IEEE 802.11 Wireless LAN Standard.
 4. Define multiplexing. Explain the various multiplexing techniques.
 5. Write short notes on **any two** :
 - a) LAN
 - b) Domain Name Server (DNS)
 - c) ARPANET.
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