22524/E 240

Reg. No. | | | | | | | | |

V Semester B.C.A.2 Degree Examination, Nov./Dec. 2018
(Repeaters)
COMPUTER NETWORKS

Time : 3 Hours Max. Marks : 80

Instructions : ***1) All Sections are compulsory.***

2) Draw neat diagrams wherever necessary.

SECTION – A

I. Answer **any ten** of the following : **(10×2=20)**

1) Define computer Network.
2) Name any two network topologies for broadcast LAN.
3) What are Polynomial codes ?
4) What is flooding ?
5) What is subnet ?
6) What is stop and wait protocol ?
7) List the advantages of Bluetooth.
8) Define dynamic channel allocation.
9) List the functions of Application layer.
10) List the different transport service primitives.
11) Mention the applications of computer network.
12) What is WWW ?

SECTION – B

II. Answer **any six** of the following : **(6×5=30)**

13) Explain twisted pair transmission media.
14) Differentiate between ALOHA and pure ALOHA protocols.
15) Define Framing. Explain any one framing method.
16) Discuss the various CSMA protocols.
17) Explain Leaky bucket algorithm.
18) What is TCP ? Explain TCP header.
19) Discuss the various services provided by Data Link Layer.
20) Write a note on MAN.

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SECTION – C

III. Answer **any three** of the following : **(3×10=30)**

21) Explain TCP/IP model.

22) Explain the IEEE 802.3 frame format.

23) What is cyclic redundancy check ? Explain the cyclic redundancy check method for error detection with example.

24) Draw the neat diagram of coaxial cable and optical fibre. Explain them with their applications.

25) Write a short notes on following :

a) DNS

b) Bluetooth

c) Sliding window protocol.

d) Stop and wait ARQ Protocol.