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SECOND YEAR BCA Science
BCA23407: Computer Networks
(Semester III)

Program: BCA **Code(BCASc08)**
Program Specific: BCA (Science)
Course Type: VSC
Paper: BCA23407

Credit:2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

SECTION: A

Q1) Answer the following.

[5 X 1= 5]

1. Name protocols used in application layer.
2. What is computer Network?
3. Define baud rate.
4. What is LAN?
5. Which layer of the OSI model is responsible for end to end data transmission?

SECTION: B

Q2) Answer any five of the following.

[5 X 2 =10]

1. Differentiate between analog and digital data.
2. What is Distortion in signal transmission?
3. Define Physical addressing in networking.
4. What are the primary types of network?
5. Define Noise in data transmission. State types of noise.
6. Give advantages of Star topology.
7. How does the TCP/IP Model differ from the OSI Model?

SECTION: C

Q3) Attempt any two of the following.

[2 X 5 = 10]

1. Define line coding. Draw graph using NRZ-L and NRZ-I coding for
i) 00110011
ii) 00000000
2. Write note on TCP/IP model.
3. Define Data communication? Explain characteristics of data communication?
4. What is HAN? Explain advantages and disadvantages of HAN.

SECTION: D

Q4) Answer any one of the following.

[5 X 1 = 5]

1. Compare Bus, Ring and Star topology.
2. Explain different transmission modes in detail.
