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(20721)

Roll No.

B.Sc. (Com. Sc.) - VI Sem.

NP-3612 (CV-II)
B.Sc. (Com. Science) Examination,
June-2021
Computer Network
(BCS-602)

Time : 1½ Hours]

[Maximum Marks : 75

Note : Attempt questions from **all** sections as per instructions.

Section-A

(Very short answer type questions)

Note : Answer any **two** questions. Each question carries 7.5 marks. Write a very short answer not exceeding 75 marks.

$2 \times 7.5 = 15$

1. Differentiate between periodic and non-periodic signal.

P.T.O.

2. Why is piggy backing used? Discuss.
3. What do you mean by URL? Cite example. *uniform resource l*
4. List and clarify different IEEE standards for communications.
5. Write down main functions performed data link layer.

Section-B

(Short answer type questions)

Note : Answer any **one** question. Each question carries 15 marks. Write short answer not exceeding 200 Words.

$1 \times 15 = 15$

6. Specify various goals of computer networks.
7. With neat sketch explain twisted pair cables, connectors of twisted pair cables with neat graph explain the performance of Twisted pair cables.
8. With an example explain the sliding window flow control mechanism.

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Section-C

(Long answer type questions)

Note : Answer any **two** questions. Each question carries 22.5 marks. Give answer in detail. $2 \times 22.5 = 45$

9. What is the significance of ISDN? Explain the basic concept of ISDN. Give the protocol architecture of ISDN.
10. Explain the working of CSMA/CD protocol in detail. Describe various versions of it.
11. Draw a comparison between OSI model and TCP/IP reference model.
12. A 12-bit hamming code word containing 8 bits of data and 4 parity bits is read from memory. What was the original 8-bit data word that was written into memory if the 12-bit word read out is:
 - (a) 010011111000
 - (b) 011101010010
 - (c) 010000000101

13. Write short notes on the following terms:

- (a) MAN
- (b) ARPANET
- (c) MAC layer
- (d) HTTP
- (e) Token ring