Roll No. ....

Total No. of Questions : 13]   [Total No. of Pages : 02

Paper ID [A0216]

(Please fill this Paper ID in OMR Sheet)

BCA (401) (S05) (O) (Sem. - 4th)
COMPUTER NETWORKS

Time : 03 Hours   **Maximum Marks : 75**

Instruction to Candidates:

1) Section - A is **Compulsory**.

2) Attempt any **Nine** questions from Section - B.

Section -A

(15 x 2 = 30)

Q1)

a) What are the important features of a computer network?

b) What do you mean by half-duplex transmission mode?

c) What is cladding.

d) What are the types of Transmission media?

e) What do you mean by leased line?

f) What are the important topologies for networks?

g) Why is coaxial cable superior to twisted-pair cable?

h) What are the important functions of Data Link Layer?

i) Briefly explain the CSMA/CD protocol.

j) Write short notes on: Repeaters and Hubs.

k) Differentiate between digital and analog communication.

l) What do you mean by PPP?

m) What are standards?

n) What do you mean by serial communication?

o) Discuss the various types of wireless transmission.

Section - B

(9 x 5 = 45)

Q2) What are the various reasons for having network standards? Explain.

Q3) What is layered architecture? What is the need for layered architecture?

Q4) What are the various layers present in the OSI Model?

Q5) What are switches? How they are different from hubs?

Q6) Explain the concept of multiplexing.

Q7) What do you mean by broadband?

Q8) Differentiate between packet switching and circuit switching.

Q9) Mention the advantages of optical fiber transmission media.

Q10) Describe the services provided by the session's layer and discuss.

Q11) What is a Bridge? When is it used?

Q12) Write a short note on IEEE standards.

Q13) Write short notes on HDLC.

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