

Exam.Code:0922
Sub. Code: 6481

2014
B.E. (Information Technology)
Fourth Semester
PCIT-402: Computer Networks

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Part.

x-x-x

- Q1. a) Which OSI layers are the network support layers?
b) Why is coaxial cable superior to twisted-pair cable?
c) How throughput is improved in slotted ALOHA over pure ALOHA?
d) What are the responsibilities of the network layer?
e) The transport layer creates a connection between the source and destination. (5*2=10)
What are the three events involved in a connection?

Part A

- Q2. a) Discussed various types of wireless media used in Computer networks.
b) Compare circuit-switched and packet-switched network. (5,5)
- Q3. a) Compare Selective Repeat ARQ with GO- Back -N ARQ.
b) Draw the flow diagram to explain the working of CSMA along with persistence strategies. (5,5)
- Q4. Explain the working and frame format of IEEE 802.4 Standard in detail. (10)

Part B

- Q5. What is IP addressing? How does it classified? How is subnet addressing performed? (10)
- Q6. Explain the following: (10)
a) TCP b) UDP
- Q7. Write Short notes on following: (5,5)
i) Email ii) Cryptography

x-x-x