

Code No: A5803, A0503

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech I Semester Examinations, March/April-2011

COMPUTER COMMUNICATIONS

(COMPUTER SCIENCE & ENGG., COMPUTER SCIENCE)

Time: 3hours

Max. Marks: 60

Answer any five questions

All questions carry equal marks

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1. a) What do you mean by client – server model ? Explain with neat diagram.
b) Define network architecture? And Explain the Protocol Hierarchies. [6+6]
2. a) What do you mean by Piggy backing? What is the significance of it in sliding window Protocol?
b) What is the difference between dispersion and solitons? And explain single mode and multimode fiber. [6+6]
3. a) Explain the following terms
i) Pure ALOHA ii) Slotted ALOHA
b) Explain 10 Base -5, 10 Base -2 and 10 Base -T in Ethernet Cabling. [6+6]
4. a) What do you mean by shortest path and draw the five steps used in computing the shortest path.
b) Discuss the congestion Prevention Policies. [6+6]
5. a) What is a Nestling of TPDU (Transport Protocol data unit)? Draw the diagram and explain.
b) What do you mean by User Datagram Protocol (UDP)? Explain. [6+6]
6. a) Write meaning of some fields used in the RFC – 822.
b) Draw the model of the web and explain. [6+6]
7. a) What are the plain text and cipher text in cryptography? And draw the encryption model.
b) Explain quantum Cryptography with an example. [6+6]
8. a) Discuss the reflection attack Protocol. [6+6]
b) Write a short note on
i) Secure naming
ii) DNS Spoofing.
