

TAHUN AKADEMIK 2013/2014

Mata Kuliah : Computer Network

Dosen : Rabihi Awaludin

Program Studi : Ilmu Komputer

Semester :

Hari/Tanggal : Sabtu, 20 Agustus 2016

Waktu : 90 menit

Sifat : Close Book

SOAL URAIAN

1. Search the Internet to find out some of the important peering points used for routing packets in the Internet at present.
2. What does ??negotiation?? mean when discussing network protocols? Give an example
3. Ethernet and wireless networks have some similarities and some differences. One property of Ethernet is that only one frame at a time can be transmitted on an Ethernet. Does 802.11 share this property with Ethernet? Discuss your answer
4. Imagine that you have trained your St. Bernard, Bernie, to carry a box of three 8-mm tapes instead of a flask of brandy. (When your disk fills up, you consider that an emergency.) These tapes each contain 7 gigabytes. The dog can travel to your side, wherever you may be, at 18 km/hour. For what range of distances does Bernie have a higher data rate than a transmission line whose data rate (excluding overhead) is 150 Mbps? How does your answer change if (i) Bernie's speed is doubled; (ii) each tape capacity is doubled; (iii) the data rate of the transmission line is doubled.

question preview

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SELAMAT MENGERJAKAN

1. Make a list of activities that you do every day in which computer networks are used. How would your life be altered if these networks were suddenly switched off?
2. Imagine that you have trained your St. Bernard, Bernie, to carry a box of three 8-mm tapes instead of a flask of brandy. (When your disk fills up, you consider that an emergency.) These tapes each contain 7 gigabytes. The dog can travel to your side, wherever you may be, at 18 km/hour. For what range of distances does Bernie have a higher data rate than a transmission line whose data rate (excluding overhead) is 150 Mbps? How does your answer change if (i) Bernie's speed is doubled; (ii) each tape capacity is doubled; (iii) the data rate of the transmission line is doubled.
3. Go to IETF's Web site, www.ietf.org, to see what they are doing. Pick a project you like and write a half-page report on the problem and the proposed solution.
4. A disadvantage of a broadcast subnet is the capacity wasted when multiple hosts attempt to access the channel at the same time. As a simplistic example, suppose that time is divided into discrete slots, with each of the n hosts attempting to use the channel with probability during each slot. What fraction of the slots will be wasted due to collisions?