



CSE204 Computer Networks 2018/2019 Spring - Midterm Exam

Name and Surname:

Student Number:

Multiple Choice (Single Answer) Questions (60 pts, 5 points each)

Q1: Application layer packet is usually called _____.

- a. segment **b. message** c. frame d. datagram e. none of above

Q2: Which one is **not** true for web caching?

- a) **Web cache doesnt has its own disk space**
b) Web cache can act both like server and client
c) Web cache might reduce the response time
d) Web cache contains copies of recently requested objects

Q3: Suppose Host A wants to send a large file to Host B. The path from Host A to Host B has three links, of rates $R_1 = 0.003\text{Gbps}$, $R_2 = 1000\text{Kbps}$, and $R_3 = 10\text{Mbps}$. Assuming no other traffic in the network.

What is the throughput for the file transfer?

- a. 3 Mbps b. 1.6 Mbps c. 533 Kbps d. 500 kbps **e. 1000 Kbps**

Q4: For a 10Mbps Ethernet link, if the length of the packet is 32bits, the transmission delay is (in milliseconds)

- a) 3.2** b) 32 c) 0.32 d) None of the mentioned

Q5: In a network, If packet “P” is the only packet being transmitted and there was no earlier transmission, which of the following delays could be zero

- a) Propagation delay **b) Queuing delay** c) Transmission delay d) Processing delay

Q6: Which one is **not** true?

- a. File transfer requires no data loss, elastic throughput and no time sensitivity.
b. E-mail application requires no data loss, elastic throughput and no time sensitivity.
c. Internet telephony requires some loss, elastic throughput and no time sensitivity.
d. Stored video requires some loss, fixed throughput and time sensitivity.



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Q7: Which of the following is false with respect to UDP

- a) Connection-oriented b) Unreliable c) Transport layer protocol d) All of the mentioned

Q8: The ability to inject packets into the Internet with a false source address (someone else is imitating you) is known as _____.

- a. IP Spoofing b. DoS Attack c. Packet Sniffing d. Virus

Q9: _____ protocol downloads emails into folders and emails in the local machine, poses a problem for the nomadic user where server does not keep user state across sessions.

- a. POP3 b. SMTP c. IMAP d. HTTP

Q10: Q: The IETF standards documents are called

- a. RFC b. RCF c. ID d. None of the mentioned

Q11: Directory service that translates hostnames to IP addresses called _____.

- a. HTTP b. SMTP c. Web service d. DNS

Q12: The client in socket programming must know which information?

- a) IP address of Server b) Port number c) IP address & Port number d) None

General Format Questions

Q13: (20 pts) Explain each delay that comprised by nodal delay as shown in formula below and indicate time scale (i.e. microseconds, milliseconds) of each with reasons.

$$d_{\text{nodal}} = d_{\text{proc}} + d_{\text{queue}} + d_{\text{trans}} + d_{\text{prop}}$$



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Q14: (20 pts) Draw a big picture of Inter-networks diagram that contains all components of network with their names, briefly explain their functions. The diagram should contain edge (end-devices) devices, access networks and core networks (LAN, WAN etc.).