

25-Summer-CSE421-1

Quiz 2-A

Marks: 15

Time: 20 mins

Name:

ID:

Serial:

1. The total RTT required to request for X objects, including opening a non-persistent TCP connection, is 2500 ms.
  - a. Given, it requires 20ms to send a TCP request and 40ms to send HTTP Requests. Additionally, it requires the server 5ms to retrieve each object from the database. Identify the value of X? [4]
  - b. Calculate the total time (in ms) required to view the whole page if each object requires 60 ms to download. [2]
2. From the below figure, PC-B visits abedu.ac.bd on 13th July at 5:30 AM and gets an RR of (abedu.ac.bd, 172.69.99.13, A, 12) where the TTL is given in hours. On the next day, PC-A visits the same website. Given, each DNS lookup requires 45ms.

*Local DNS B does not know of Local DNS A.*

- a. Find the total time required for PC-B to look up for the IP address. [3]
- b. Find the total time required for PC-A to look up for the IP address. [4]
- c. State the type of resource record returned by the AS server. [2]

