CSE421 Assignment 01 [MSMA | 2024 Fall]

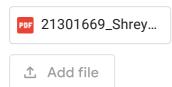
Total points

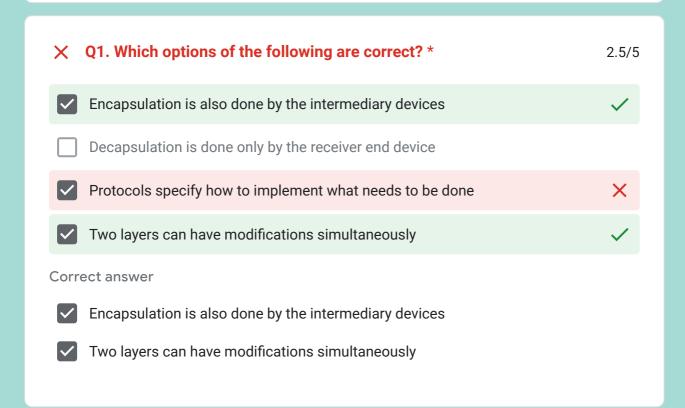




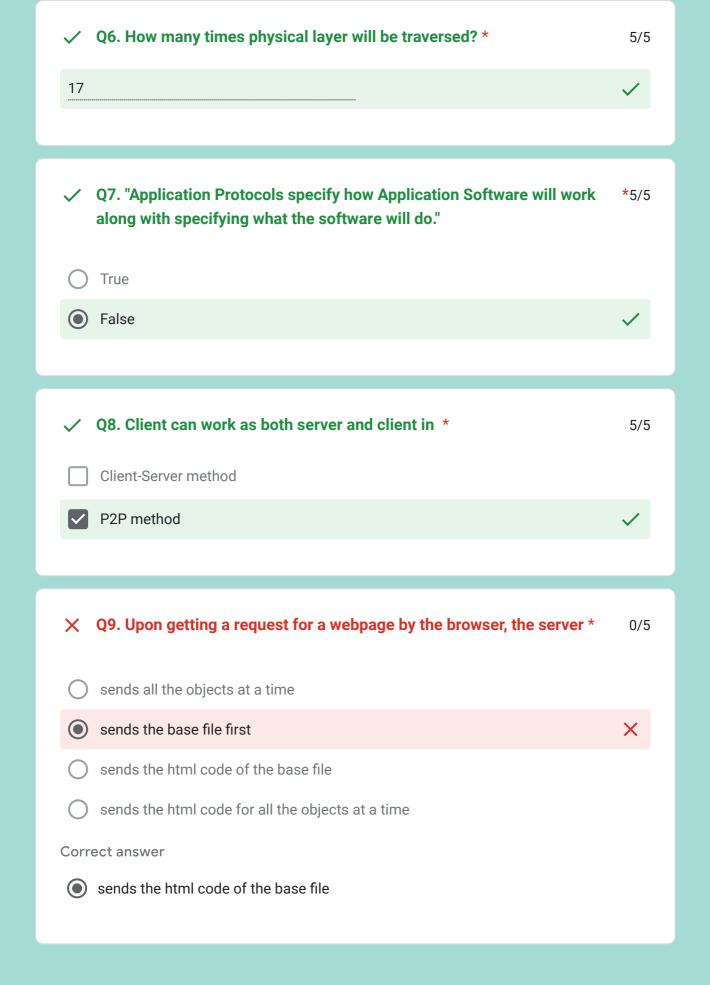
Answer all the questions in this form. PDF submission is optional for the math problems/short answer questions. You can submit only once even if you submit by mistake. Make sure that your answers are put correctly by refreshing the page. Deadline: November 05, 2024 (Tuesday) 11:59:59pm

[This is optional] Submit your workings through a pdf file. Naming Format: ID_Name



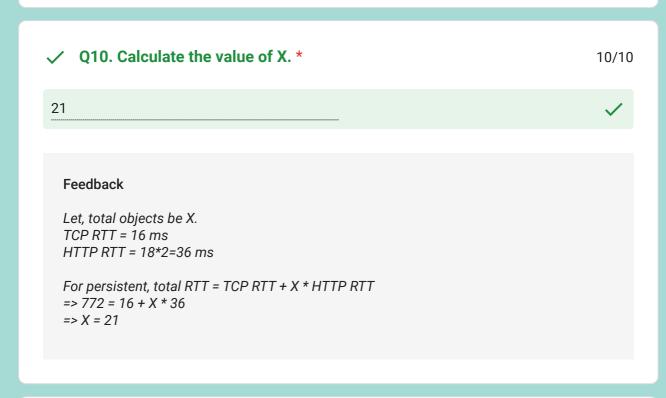


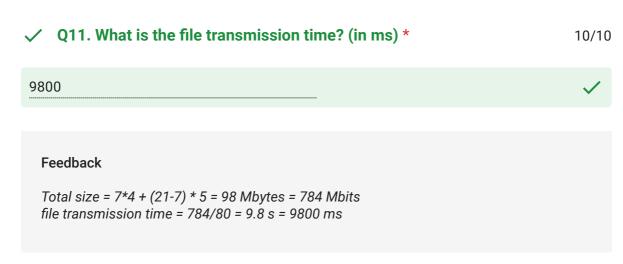


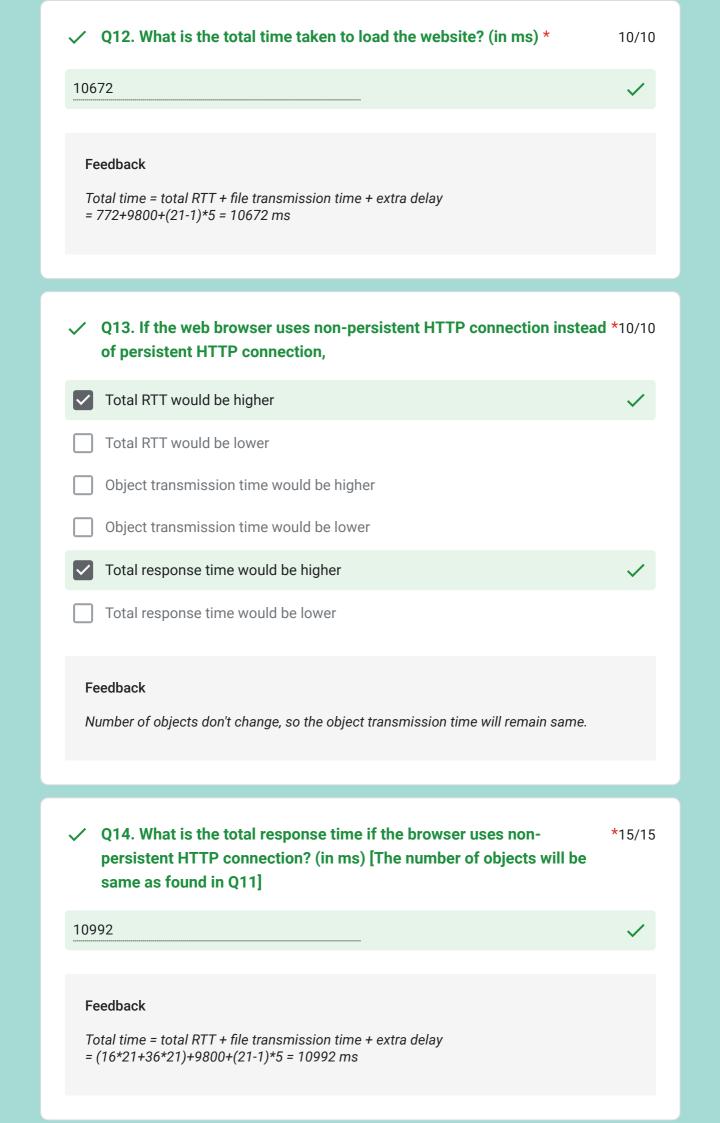


Answer Q10 to Q14 based on the following scenario

You have requested to visit www.bracu.ac.bd website using a persistent HTTP connection. There are X objects in total. Among them, the first 7 objects are 4 MBytes each and the remaining objects are 5 MBytes each. Your computer's download speed is 80 Mbps. It takes 16ms for a small TCP packet to go from your computer to the BRACU server and come back; 18ms for a small HTTP packet to come from the BRACU server to your Computer. Your device waits 5 ms after getting an HTTP response to send the next TCP/HTTP request (Consider this a separate waiting delay). The total RTT to fetch all the objects is 772ms.







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