

In the name of GOD

Applied Computer Networks

Spring 2025

Homework 2

Important Notes

- Answers to exercises must be submitted in typed form. Submitting a photo of the manuscript is not acceptable.
- Answers to questions should be short and written by you. Avoid writing answers that you are not sure of them. Negative marks will be given for incorrect parts of the answer.
- For each day of delay in submitting, 20% of the exercise grade will be deducted. After 5 days, no grade will be awarded for the exercise.
- If you have any questions about the exercises, you can ask them in the Telegram group.
- If cheating is observed, action will be taken in accordance with educational rules.
- The output of the exercise must be a pdf file, with name ACN-HW#-Name-STID.pdf like this one ACN-HW2-RezaMohammadi-40200123.pdf. Please name the rest of the items same manner and send it along with pdf file.

Question 1. WEB traffic Simulation

Create Web server and client in Packet Tracer or GNS3. Connect them with a switch. Open website with IP in client browser.

Capture traffic and explain each layer header and payload.

Question 2. DNS

Add DNS to previous network, Config DNS server to resolve web site by domain name (Like myweb.com).

Capture traffic and explain each layer header and payload.

Question 3. Wireless

Explain these wireless protocols and compare them in a table.

WEP

WPA

WPA2

WPA3

Question 4. Upload Personal Website

Upload your personal website to a free hosting like GitHub pages.

Report steps and screenshot of your website and hosting.