Network Fundamentals

OSI Model

Task 1:

Answer the questions below

What does the "OSI" in "OSI Model" stand for?

Open Systems Interconnection	✓ Correct Answer

How many layers (in digits) does the OSI model have?

7	✓ Correct Answer

What is the key term for when pieces of information get added to data?

encapsulation	✓ Correct Answer

Task 2:

Answer the questions below

What is the name of this Layer?

Application	✓ Correct Answer

What is the technical term that is given to the name of the software that users interact with?

Graphical User Interface	✓ Correct Answer

Shariful Islam
sharifiitju@gmail.com
https://github.com/sharifuliitju

Task 3:

Answer the questions below

What is the name of this Layer?

Presentation	✓ Correct Answer

What is the main purpose that this Layer acts as?

Translator	✓ Correct Answer	🔆 Hint

Task 4:

Answer the questions below

What is the name of this Layer?

Session	✓ Correct Answer

What is the technical term for when a connection is successfully established?

Session	✓ Correct Answer	🔆 Hint

What is the technical term for "small chunks of data"?

Packets	✓ Correct Answer

Shariful Islam
sharifiitju@gmail.com
https://github.com/sharifuliitju

Task 5:

Answer the questions below

What is the name of this Layer?

Transport	✓ Correct Answer

What does TCP stand for?

Transmission Control Protocol	✓ Correct Answer

What does UDP stand for?

User Datagram Protocol	✓ Correct Answer

What protocol guarantees the accuracy of data?

TCP	✓ Correct Answer

What protocol doesn't care if data is received or not by the other device?

UDP	✓ Correct Answer

What protocol would an application such as an email client use?

TCP	✓ Correct Answer

What protocol would an application that downloads files use?

TCP	✓ Correct Answer

What protocol would an application that streams video use?

UDP	✓ Correct Answer

Task 6:

What is the name of this Layer?

Network	✓ Correct Answer

Will packets take the most optimal route across a network? (Y/N)

Y	✓ Correct Answer

What does the acronym "OSPF" stand for?

Open Shortest Path First	✓ Correct Answer

What does the acronym "RIP" stand for?

Routing Information Protocol	✓ Correct Answer

What type of addresses are dealt with at this layer?

IP Addresses	✓ Correct Answer	♀ Hint

Shariful Islam
sharifiitju@gmail.com
https://github.com/sharifuliitju

Task 7:

MAC addresses are set by the manufacturer.

Answer the questions below ─────────

What is the name of this Layer?

Data Link	✓ Correct Answer

What is the name of the piece of hardware that all networked devices come with?

Network Interface Card	✓ Correct Answer	💡 Hint

Task 8:

What is the name of this Layer?

Physical	✓ Correct Answer

What is the name of the numbering system that is both 0's and 1's?

Binary	✓ Correct Answer

What is the name of the cables that are used to connect devices?

Ethernet Cables	✓ Correct Answer

Shariful Islam
sharifiitju@gmail.com
https://github.com/sharifuliitju

Task 9:

Answer the questions below

Escape the dungeon to retrieve the flag. What is the flag?

THM{OSI_DUNGEON_ESCAPED} ✓ Correct Answer

Shariful Islam
sharifiitju@gmail.com
https://github.com/sharifuliitju