Jarryd Patel Internet Programming and e-Commerce

TAKE HOME TEST PAPER

JARRYD PATEL

Question 1

1.1

The three according to Kenneth C. Laudon and Carol Guercio Traver the phases include:

Innovation	Phases which involves the fundamental building blocks of the internet This occurred through the years 1961-1974.
Institutionalization	Funding provided from big institutions to legitimize the internet This occurred through the years 1975-1995.
Commercialization	Encouragement of private corporations to expand the internet through the backbone This occurred through the years 1995-Present.

(Kenneth C. Laudon (Author), 2018)

1.2

According to Landon and Traver (2014), HTML5 is the most recent version of Hypertext Mark-up Language which includes simplified syntax and multimedia elements.

HTML5 introduced multimedia and vector graphics (edureka, 2020).To set the html as a HTML5, All one needs to do is add the <!DOCTYPE> declaration in the beginning of the HTML document (W3Schools, 2020)

HTML introduced the <canvas> tag to define and draw graphics.

Other HTML5 Tags include:

- <menu>
- <figure>
- <audio>
- <video>

(GeeksforGeeks, 2020)

1.3

Some web browsers include:

- Electronic mail (E-mail)
- Messaging applications (IM -Instant messaging)
- Internet Telephone (VoIP)
- Search engines
- Online message boards

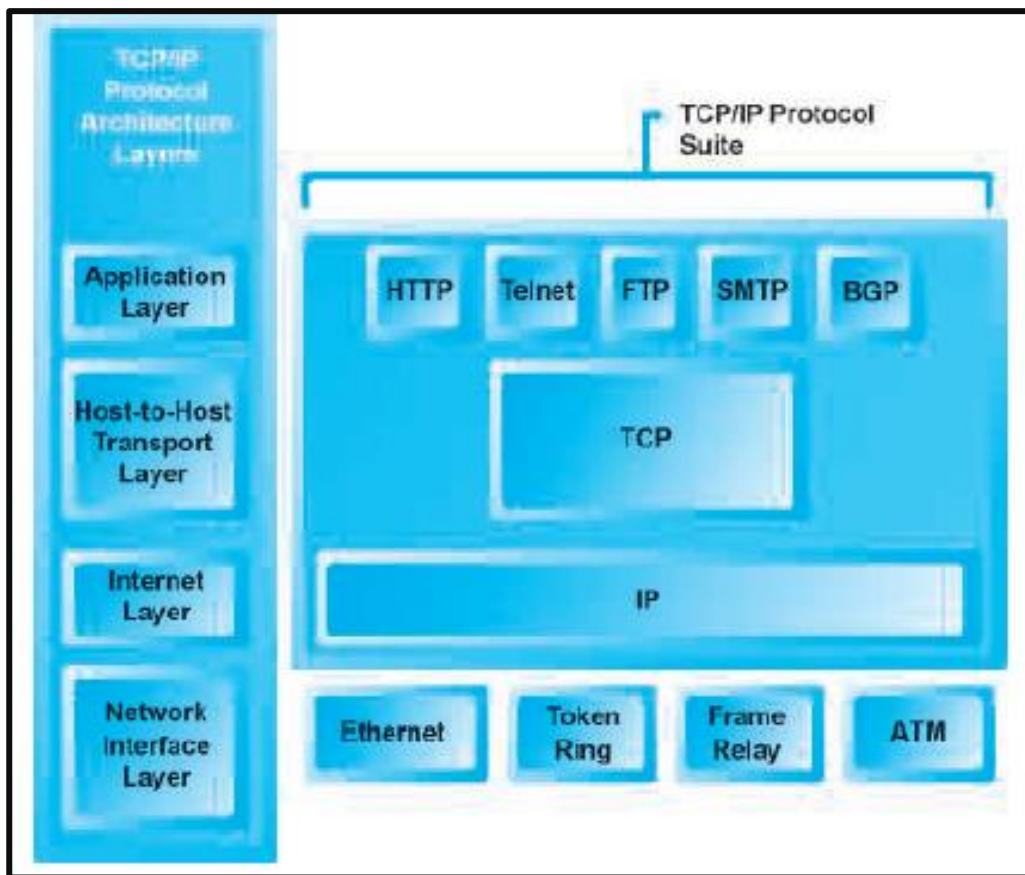(serverpronto, 2020)

Question 2

2.1 – page 119

Figure 1: TCP/IP Architecture and Protocol Suite.

The TCP/IP Model is a standard which allows us to understand how a computer will connect and communicated over the internet. The architecture is a setup to a secure and functional user experience (avast, 2020).

The TCP/IP protocol contains 4 layers which includes:

- Network interface layer
- Internet layer
- Host-to-Host transport layer
- Application layer

The application layer is the layer which enables access to network resources. This layer is also closest to the end-user. It helps the ability of many functions such as logging on to a remote host or email services (chen, 2020).

The transport layer is responsible for the delivery of messages. The aim of this layer is to provide reliable transmission (Techweb, 2020).

The internet layer moves packets from source to destination through "internetworking". This layer contains routing protocols (R. Padmini, 2020).

The Network interface layer can transmit data between devices on the same network, also called the network access layer as it aids the basic transmission and aids the understanding of how data should be sent using the given network (ScienceDirect, 2020).

2.2

What are TLDs

Simply put a TLDs is the text after the dot in the domain name.

e.g. www.google.com - .com would be the TLD.

Types of TLDs

- gTLD – Generic Top-Level Domains.
- sTLD – Sponsored Top-Level Domains.
- ccTLD – Country Code Top-Level Domains.
  (namecheap, 2020).

Countries with TLDs

Country	TLD
Australia	.au
United States of America (USA)	.us
United Kingdom (UK)	.uk
South Africa	.za
United Arab Emirates (UAE)	.ae

(Erin, 2020)

Question 3

3.1
PRACTICAL: File Uploaded – Name "Question3.1.html"

3.2
PRACTICAL: File Uploaded – Name "Question3.2.html"

Question 4

4.1 & 4.2
PRACTICAL: File Uploaded – Name "Question4.html"

Question 5

5.1 & 5.2
PRACTICAL: File Uploaded – Name "Question5.html" + "Valid.js"

References

avast. (2020). Retrieved from https://www.avast.com/c-what-is-tcp-ip

chen, J. (2020). Retrieved from https://www.router-switch.com/faq/what-is-application-layer-the-functions-and-examples-of-application-layer.html

edureka (Director). (2020). *HTML vs HTML5 | Difference between HTML and HTML5 | HTML Tutorial | Edureka* [Motion Picture]. Retrieved from https://www.youtube.com/watch?v=vHmUVQKXlVo

Erin. (2020, May 15). *What is a TLD?* Retrieved from https://support.rebrandly.com/hc/en-us/articles/360011091773-What-is-a-TLD-

GeeksforGeeks. (2020). *GeeksForGeeks.com*. Retrieved from https://www.geeksforgeeks.org/most-commonly-used-tags-in-html/

Kenneth C. Laudon (Author), C. G. (2018). *E-commerce 2018 (14th Edition)* . Pearson. Retrieved from https://www.amazon.com/commerce-2018-14th-Kenneth-Laudon/dp/013483951X

namecheap. (2020). Retrieved from https://www.namecheap.com/domains/what-is-a-tld-definition/

R. Padmini. (2020). Retrieved from https://www.informit.com/articles/article.aspx?p=29578

ScienceDirect. (2020). Retrieved from https://www.sciencedirect.com/topics/computer-science/network-interface

serverpronto. (2020). Retrieved from https://www.serverpronto.com/spu/2014/08/different-types-of-web-servers/

Techweb. (2020). Retrieved from http://teachweb.milin.cc/datacommunicatie/tcp_osi_model/transport_layer.htm

W3Schools. (2020). Retrieved from https://www.w3schools.com/tags/tag_doctype.asp