

Fomenky's

**UNIVERSITY OF BUEA**  
**COLLEGE OF TECHNOLOGY**  
Second Semester Exam 2019/2020

**Date:** Tuesday 03/08/2020  
**Title:** Computer Network Protocols  
**Time allowed:** 2hrs

**Instructor:** Emmanuel Nkome  
**Course code:** CEC 322  
**Time:** 13:00-15:00

**INSTRUCTIONS:** Answer ALL QUESTIONS.

**Section A MCQ (10 marks)**

- 1) The secure logical connection to which IMAP is bound to connect to the internet is \_\_\_\_\_**
  - a) Logic 993
  - b) Part 143
  - c) Port 143
  - d) Port 993
- 2) IMAP is the vehicle by which \_\_\_\_\_**
  - a) messages are moved, organized and manipulated between the mail server and the mail client application.
  - b) compatibility updates are synchronized between Outlook and other email servers.
  - c) synchronization is achieved between email clients and ISPs.
  - d) client applications are moved, organized and manipulated between the mail server and the mail client application.
- 3) Which client accesses the Web server by using a GET MESSAGE?**
  - a) ftp
  - b) http
  - c) smtp
  - d) imap
- 4) Which is the client/server program used to retrieve the document?**
  - a) packet
  - b) program
  - c) frame
  - d) protocol
- 5) Simple Mail Transfer Protocol is used to transfer?**
  - a) Only image files
  - b) Only audio files
  - c) Only text files
  - d) Only video files

- 6) **DNS is the abbreviation of**  
a) Dynamic Name System  
b) Dynamic Network System  
c) Domain Name System  
d) Domain Network Service
- 7) **Router operates in which layer of OSI Reference Model?**  
a) Layer 1 (Physical Layer)  
b) Layer 3 (Network Layer)  
c) Layer 4 (Transport Layer)  
d) Layer 7 (Application Layer)
- 8) **How many layers are in the TCP/IP model?**  
a) 4 layers  
b) 5 layers  
c) 6 layers  
d) 7 layers
- 9) **The network layer concerns with**  
a) Bits  
b) Frames  
c) Packets  
d) None of the above
- 10) **A \_\_\_\_\_ is a TCP name for a transport service access point**  
a) Port  
b) Pipe  
c) Node  
d) None of the above

**Section B (40mks)**

- 11) **Explain with examples what you understand by the term network protocols (2mks)**
- 12) **What is the meaning of the word GET in a network communication (2ms)**
- 13) **Explain with diagrams the meaning of the term 3 way handshake in a network communication (6mks)**
- 14) **In a tabular form ONLY, distinguish between HTTP, HTTPS, SSL and TSL (4mks)**
- 15) **State the four parameters that you can assign to network computers (2mks)**

- 18) Explain the term and significance of leasing of an ip address (3mks)
- 19) Explain detailly how a DNS server works (6mks)
- 20) In a tabular form ONLY, state the differences between NAT and DNS services (2mks)
- 21) What is the difference between public and private ip address (4mks)
- 22) In a tabular form, state the difference between IMAP and SMTP (4mks)
- 23) What is the role and full meaning of the ARP protocol (2mks)

**ALL THE BEST**