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**GASABO DISTRICT**

**DISTRICT COMPREHENSIVE ASSESSMENT, RTQF LEVEL… 2022-2023**

**TRADE: NETWORKING AND INTERNET TECHNOLOGIES**

**MODULE:APPLY NETWORK FUNDAMENTALS**

**DATE OF EXAM: 17/03/2023 Duration:3 H**

**ACADEMIC YEAR: 2022-2023**

**Instructions:**

1. **Answer all questions in section A (55 Marks)**
2. **Answer three question in section B (30 Marks)**
3. **Answer one question in section c (15 Marks**)

**Section A**

Q1. Define computer network? **2marks**

Q2. What is the benefit of network in real life? **4marks**

Q3. As technician what is the classification of network by geographical area? **4marks**

Q4. We have network technologies what are the technologies below? **4marks**

1. IEEE802.3
2. IEEE802.11

Q5. Description of network topology by definition and types of topology? **4marks**

Q5 Examine the advantages of topology? **4marks**

Q6. What are the components of network? **4marks**

Q7. As an IT of level 3 describe the classification of network devices? **3marks**

Q8. Explain two types of standard? **3marks**

Q9. Define protocol and what the function of protocols? **4marks**

Q10. What is importance of standard organizations? **4marks**

**Q11. Multiple questions 2mark for each question**.

1. In what type of topology do all of the computers directly tap into the same cable
2. Ring
3. Bus
4. Star
5. Mesh
6. Which network topology provides multiple communication paths so that an alternative path may be used if a connection fails?
7. Ring
8. Bus
9. Star
10. Mesh
11. The largest WAN is the internet.
12. True
13. False
14. Computer network require both hardware and software.
15. True
16. False
17. Even large networks have only one server.
18. True
19. False
20. A gateway connects networks using different communications.
21. True
22. False
23. A server provides a service to one or may clients to share files, folder or printer.
24. True
25. False
26. A LAN or (local area network) connects computers a cross the world.
    1. True
    2. False
27. A router is a device that performs the same tasks as a hub.
28. True
29. False
30. Protocols are rules that computer uses to communicate.
31. True
32. False
33. OSI stands for
34. Open system interconnection
35. Operating system interface
36. Optical service implementation
37. None of the mentioned

**Section b choose only 3 10 marks for each**

Q11.Match the following

Class B 🡪 24 network 8-Host

Class C 🡪 8-Host 24 Network

Class A 🡪 16-Host 16-Network

Q12. Give and explain the seven layers of OSI?

Q13. Differentiate private IP Address and public IP Address with examples?

Q14. Explain the methods of assigning ip address to the computer?

Q15. Differentiate ip addressing forms which are Unicasts, Broadcast and Multicast

**SECTION C CHOOSE ONLY ONE 15 MARKS**

Q16. In calculation of IP addresses.

1. Convert binary to decimal conversion

a)10100011=

2. Decimal to binary conversion

b) 1210=11002

3. Hexadecimal to decimal conversion.

c) 111101111011=F7B