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GASABO DISTRICT

DISTRICT COMPREHENSIVE ASSESSMENT, RTQF LEVEL 3 2022-2023

**TRADE: NETWORKING AND INTERNET TECHNOLOGIES**

**MODULE: WIRELESS NETWORK INDOOR INSTALLATION**

**DATE OF EXAM: 16/03/2023 Duration: 3hours**

**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 MULTIPLE CHOICE /55MARKS

1) In how many ways does a wireless LAN can be configured? 2marks

 One

 Two

 Three

 Four

2). \_\_\_\_\_\_\_\_\_\_\_ are the examples of the standard WI-FI devices 4marks

 Wireless routers

 Wireless Ethernet Bridge

 Wireless access point

 All of the above

3).What is the standard form of WPA? 2marks

 Wireless Protocol Access

 Wired Protocol Access

 WI-FI Protected Access

 None of the above

4).What is the standard form of WEP? 2marks

 Wireless Equivalent Protocol

 Wired Equivalent Protocol

 Wired Equivalent Privacy

 None of the above

5).The range of 802.11 b standard is about \_\_\_\_\_\_\_\_\_\_\_\_2marks

 5-10 Km

 5-20 Km

 ≤100 Km

 5-25 Km

6).The standard 802.11 supports \_\_\_\_\_\_ data rate 4marks

 1Mbps and 2Mbps

 6Mbps and 9Mbps

 5.5Mbps and 11Mbps

 22Mbps and 33Mbps

7).In which year the wireless technology WIMAX is designed?

 2002

 2003

 2004

 2005

8).What are the advantages of WIFI? 4marks

 Flexible

 Ease of installation

 Reliability

 All of the above

9).Which standard uses up to 60GHz frequency band? 2marks

 IEEE 802.11ad

 IEEE 802.11ac

 IEEE 802.11n

 None of the above

10).What is the standard form of VPN? 2marks

 Virtual Protocol Network

 Virtual Private Network

 Virtual Privacy Network

 None of the above

11).What is the standard form of VOIP? 2marks

 Voice Over Integrity Protocol

 Voice Over Integrity Privacy

 Voice Over Internet Protocol

 None of the above

12).What is the standard form of WI-FI? 3marks

 Wired Fidelity

 Wired Function

 Wireless Fidelity

 None of the above

13).The wavelength of the low-frequency transmission type is about \_\_\_\_\_\_\_\_\_\_3marks

 33-10km

 10-1km

 1000-100m

 100-10m

14. The throughput of the IEEE standard 802.11b is \_\_\_\_\_\_\_\_\_\_\_2marks

 ≤11Mbps

 ≤64Mbps

 ≤74Mbps

 None of the above

15).The frequency range of WI-FI is around \_\_\_\_\_\_\_\_\_\_4marks

 2.4 GHz and 5GHz

 2.9 GHz and 5GHz

 3.4 GHz and 5GHz

 4.4 GHz and 5GHz

16). WI-FI provides support to \_\_\_\_\_\_\_\_\_\_\_3marks

 Limited number of users

 Large number of users compared to Bluetooth

17). Wireless MAC protocols are categorized into \_\_\_\_\_\_\_\_\_\_\_\_2marks

 One

 Two

 Three

 Four

18). WI-FI is \_\_\_\_\_\_\_4marks

 More complex

 Simple to use

 Requires configuration of hardware and software

 All of the above

19).The throughput of the IEEE standard 802.11a is \_\_\_\_\_\_\_\_\_\_\_ 2marks

 ≤54Mbps

 ≤64Mbps

 ≤74Mbps

 None of the above

20).The indoors and outdoors range of WIFI 4/IEEE 802.11n is around \_\_\_\_\_\_\_\_\_\_\_4marks

 10m, 100m

 70m, 250m

 35m, 120m

 40m, 100m

SECTION B ATTEMPT 3 QUESTIONS 10MARKS EACH

Q21 a). Define the terms:

1. Wireless 1mark
2. Wireless network 1mark
3. Networking 1mark
4. WPAN 1mark
5. WLAN 1mark
6. WMAN 1mark

b) List any four function of using wireless network? 4marks

Q22. As technician you are selected by company to go to install wireless network indoor, list five wireless components you will use? 10marks

Q23. What of the following device is used in the network layer? And what is the standard of IEEE802.11 means 10marks

1. Application gateway
2. Switch
3. Router
4. Repeater
5. Wi-Fi
6. Both c and e are correct

SECTION C

Q24 a). The IEEE 802.11 standard was designed to use in limited geographical areas like homes, office buildings, or on campuses. The IEEE 802.11 Wi-Fi is mainly for ………………………………. and in addition to this, 802.11 supports two additional features they are power management and security mechanism.

Complete one answer above 5marks

1. Wireless LAN
2. Wired LAN

b). Identify among the following which belongs to class A, class B and class C 10marks

1. 121.12.12.248
2. 172.12.12.248
3. 192.12.12.248
4. 222.12.12.248

Q25. By using color coding write the color of **T-568A Straight-Through Ethernet Cable**? 15marks