Menoufia University **Faculty of Electronic Engineering** **Dept. of Computer Science and Engineering** **Third Year** **Advanced Computer Networks (CSE323)**		**Date: 27/5/2019** **Time: 3 hours, No. of Pages : Two** **Full Mark = 60 Mark** **Final Exam., (2ⁿᵈ Term)** **Examiner: Dr. Ehab A. Khalil**

Answer All the Following Questions

1- The following questions are multiple choices. Please <u>Select Best One</u> from (A)-(D).

I- ------- software drivers for a data transport protocol used on small Microsoft based network.
    (A) NDIS   (B) NetBIOS   (C) NetBEUI   (D) TCP/IP

II- The UTP type ------- is used with Gigabit Ethernet, 10 Ethernet (100meters).
    (A) CAT5e   (B) CAT6   (C) CAT6e   (D) CAT7

III- Which of the following is not belongs to the internal of Li-Fi Dongle -------.
    (A) Received Application Data   (B) Streaming Content
    (C) Photo Detector   (D) Amplification & Processing.

IV- With using ------- technology the data can flow Symmetric/Asymmetric.
    (A) VDSL   (B) RADSL   (C) HDSL   (D) SDSL

V- In ISDN the ------- reference point is between non-ISDN equipment and a TA.
    (A) R   (B) S   (C) T   (D) U

VI- Which of the following is not ISDN Supplementary service -------.
    (A) Call Waiting   (B) Telephony   (C) Reverse Charging   (D) Massage Handling.

VII- Which of the following is not Cisco IOS software -------.
    (A) PQ   (B) CQ   (C) LIFO   (D) WFQ

VIII- The ------- provides the services to actually launch a job on a particular resource, check its status, and retrieve its results when it is complete.
    (A) GSI   (B) MDS   (C) GASS   (D) GRAM

IX- The first e-mail was sent by ------- in 1971.
    (A) Robert Elliott "Bob" Kahn   (B) Tim Berners-Lee.
    (C) Raymond Samuel Tomlinson   (D) Vinton Gray Cerf

X- Which of the following is not reason to attack -------.
    (A) DataBase, Servers, Traffic   (B) Deny of service (DoS)
    (C) Modify information   (D) Steal information

                                                           [10-marks]

2- <u>Choose (T) for the true sentence and (F) for the false sentence, Write the correct answer for the False one:</u>

I- Synchronous & Asynchronous is a type of protocol.   (T/F)

II- Li-Fi technology uses radio frequency (RF) based network technologies.   (T/F)

III- The FCC did put restrictions on the ISM bands.   (T/F)

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IV- PLC superimposing voice or data signals onto the line carrier signal using OFDM. (T/F)

V- In ISDN the S reference point is between NT1 and NT2 devices. (T/F)

VI- Cisco IOS-PBR enables you to classify traffic based on extended access list criteria. (T/F)

VII- In short VMware is the creation of a virtual (rather than actual) version of something, such as an operating system, a server, a storage device or network resources. (T/F)

VIII- NIST Visual Model of Cloud Computing Service Models are SaaS, PaaS, and IaaS. (T/F)

IX- The DNS translates Internet domain and host names to IP addresses. (T/F)

X- Vulnerability is a flaw or weakness in software or hardware, or a weakness in a process that could be exploited, resulting in a security breach. (T/F)

[18-mark]

3-Select the best and correct word to complete the following sentences:

RF – OFDM – Extended S_Bus – FHSS – 500 – CQ – Star – WFQ – Extractors - Short S_Bus –
Hybrid – FTP – MSAU(MAU) – PQ – ARQ – Line Of Sight(LOS) – Ring – Repeaters –
IP – NBAR– Usenet – DSSS – Li-Fi – CAR – 10 – Policy based routing –
Injectors – 8 – hardware – Public – 200 – Private

a- The ----- wired ----- topology uses ----- to connect network devices.

b- The----- technology provides high amount of security as data communication, it is ----- and covers low region does not pass through the walls.

c- The ----- uses spread spectrum technology in the USA, this technology currently comes in two types ----- and -----.

d- With Access BOPL, the ----- used to inject HFS, ----- used to regenerate signals, and ----- used to retrieve these signals.

e- The ISDN ----- has maximal length of ----- meters and ----- meters for connecting devices to it, this type is most widely used, because we can connect up to ----- devices which can operate simultaneously.

f- ----- is designed to minimize configuration effort, and it automatically adapts to changing network traffic conditions.

[16-mark]

4- a- What are the proprietary protocols? [2-marks]
   b- What are the goals of WAP? [3-marks]
   c- What are the most common Fast Access Technologies? [3-marks]

5- a- Define what are the Broadband and ISDN (B-ISDN) services? Give some examples for each service. [3-marks]
   b- Using a diagram to show the grid Computing infrastructure component. [3-marks]
   d- What is it called the following domains: Generic, Country and Inverse. [2-marks]

...Best Wishes...

Skills	Knowledge &Understanding Skills				Intellectual Skills				Professional Skills
	a2,3,4,8,16	a2,3,4,8,16	a2,3,4,8,16	a2,3,4,8,16	b2,8,12	b2,8,12	b2,8,12	b2,8,12	c1,2,14
Question Number	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q5

This exam measures the following ILOs