



STUDENT SECTION			
Name			Class
Student MOE number (SIS)		School MOE Number	STUDENT SIGNATURE
School name			

Computer Science

Grade 10

Sample - Term 1

Date: November 2017

Time: TBC

Duration: 35 minutes

STUDENT INSTRUCTIONS –

Students must attempt **all** questions
For this examination, you must have:

1. An ink pen – blue.
2. A pencil.
3. A ruler.

TEACHER NOTES & INSTRUCTIONS

Please tick ✓ the correct answers in **RED INK**
and then write the mark awarded in the marking
columns. With multiple mark answers highlight
where the mark is awarded by **underlining** or by
using an extra tick.

FOR ADMIN ONLY	
MARKING RECORD	
Section	Section TOTALS
Section 1	
Section 2	
Section 3	
Section 4	
Section 5	
MARKER SIGNATURE	TOTAL MARKS
MODERATOR SIGNATURE	

SECTION 1 – Multiple choice

Choose and circle the correct answer – A, B, C or D.

(2 marks each)

Example: The measure of bits transfers across the media

- A. Throughput
- B. Latency
- C. Tracert
- D. Traceroute

1. Hardware to connect network medium wired or wireless is a(n)_____.
 - A. media card
 - B. network interface card
 - C. internet card
 - D. graphics card
2. A topology which records host location is _____ topology.
 - A. logical
 - B. physical
 - C. bus
 - D. ring
3. A _____ cable has the transmit and receive wires **reversed** on one end.
 - A. twisted-pair
 - B. fiber-optic
 - C. coaxial
 - D. cross over
4. A program that uses **HTTP** to serve the user requests is a_____.
 - A. browser
 - B. packet tracer
 - C. web server
 - D. HTML
5. A **document** written in Hyper Text Markup Language is a Web_____.
 - A. page
 - B. storage
 - C. device
 - D. address

SECTION 2 – True or False

Choose and circle the correct answer TRUE or FALSE.

(1 mark each)

Example:

- *Throughput is the measure of bits transfer across the media* TRUE FALSE

- 1. **IP** address identifies the host on the network. TRUE FALSE

- 2. **DHCP** translates the domain name to its IP address. TRUE FALSE

- 3. **Decimal** is a group of four 8 – bits bytes. TRUE FALSE

- 4. A **router** connects the internet with public address. TRUE FALSE

- 5. Private addresses are set by **ISP** providers like **DU**. TRUE FALSE

- 6. **HTTP** protocols are used for accessing web pages. TRUE FALSE

- 7. **Physical** diagram shows the network configuration information. TRUE FALSE

- 8. Headphones **cannot** be connected using Bluetooth technology. TRUE FALSE

- 9. **ipconfig** is a command to view the IP settings. TRUE FALSE

- 10. IP addresses can be 256 – bit numbers. TRUE FALSE

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SECTION 3 – Matching

Match the terms with its explanations. Write the matching letter in the correct box. The first one has been done for you. (2 marks each)

Terms

Explanations

<ul style="list-style-type: none"> <i>Example</i> Bit 	F	Represents the smallest bit of data	F
1. Hosts		Technology used in Local Area Network	A
2. NFC		Addresses referred in dotted-decimal notations.	B
3. Ethernet		Generic name used for end-user devices which sends and receives traffics	C
4. IP		A computer used to process client's requests	D
5. Server		Enables data exchange between closely connected devices.	E

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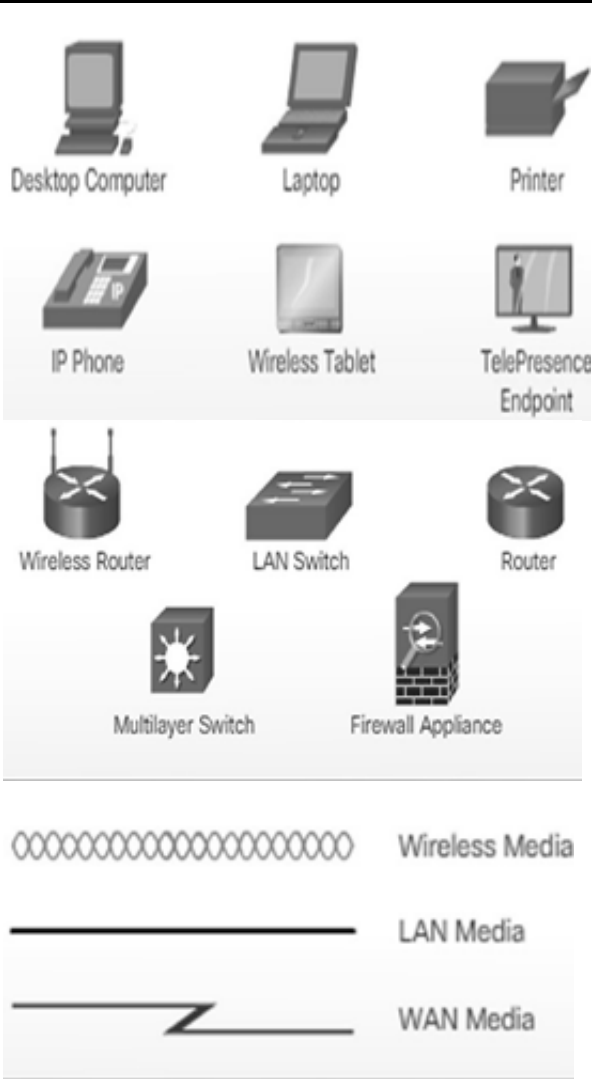
SECTION 4 – Drawing

A school is constructing a new room for student council. This room should have **two** computers and **one** printer connected to the school network.

With reference to the different devices and connections figures given, using the **Ethernet**,

4.a. **Draw and label** the logical network diagram for this room. **(4 marks)**


4.b. Write the **IP addresses** for two computers and one printer. **(6 marks)**



The legend contains the following items:

- Desktop Computer
- Laptop
- Printer
- IP Phone
- Wireless Tablet
- TelePresence Endpoint
- Wireless Router
- LAN Switch
- Router
- Multilayer Switch
- Firewall Appliance
- Wireless Media (represented by a wavy line)
- LAN Media (represented by a straight line)
- WAN Media (represented by a line with a zigzag)

4.a Draw and label Logical Network Diagram



A thick grey arrow points from the left towards the word "Ethernet" on the right.

4.b IP Addresses

1. _____
2. _____
3. _____

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SECTION 5 – Short Answer Questions

1a. What is called as a **GSM** in telephone network?

(2 marks)

1b. Explain **how** Wi-fi network used by smart phones helps people get online.

(3 marks)

2a. Write any **one** job of a server?

(1 mark)

2b. Describe **the four** different parts of the URL <https://moe.gov.ae/owa/index.htm>

(4 marks)

End of Examination

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TOTAL

/ 50
