

<b>Computing Revision Worksheet (Grade 7)</b>		<b>Name:</b>	
<b>Unit 3: Networks &amp; Digital Communication</b> <b>Unit 1: Computational Thinking &amp; Programming</b>			
<b>Date:</b>		<b>Section:</b>	

1. Match the protocol, path and domain name for each of the following websites with the correct word:

PATH	PROTOCOL	DOMAIN NAME	TOP-LEVEL DOMAIN
http://	www.sns.edu.pk	.edu.pk	www.example.tld
	/resources/grade7	/index.php	https://
www.bankofamerica.com		.org	.gov.pk

2. Which of the following is required when you need to identify a secure website which can handle financial transaction etc?

- Path
- Https://
- Domain
- Http://
- Padlock sign

3. Answer the following questions:

- a. What is the difference between a domain name and a top level domain?

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b. Explain how a DNS (Domain Name Server) is also like a phone contact list.

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c. What is the **main advantage** of Encryption?

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d. Name the following:

- i. Text BEFORE it is encrypted is called:
- ii. Text AFTER it is encrypted is called:

4. Match the cause of data corruption to the correct situation in each of the following:

<b>Electricity surge</b>	A lightning strike hits a building, causing a sudden spike in electricity that damages files on computers.
	A cellphone placed near a Wi-Fi router causes temporary glitches in a video call.
	Two phone lines running close together in an office cause a faint overlapping of each other's audio.
<b>Radio-Wave Interference</b>	A power outage with unstable voltage fries the memory of a server, corrupting stored data.
	Network cables bundled tightly together pick up signals from each other, creating errors in transmitted files.
<b>Crosstalk</b>	Using a walkie-talkie near an active radio tower causes some email transmissions to fail.
	A surge from faulty wiring causes a home PC to crash, resulting in corrupted documents.

**5. Draw the correct flowchart symbol for the following actions:**

- Displaying "Game Over" on the screen: \_\_\_\_\_
- Calculating  $\text{Final\_Price} = \text{Price} - \text{Discount}$ : \_\_\_\_\_
- Deciding whether the number is even or odd: \_\_\_\_\_

**5. A. Follow these steps and provide the output:**

- START
- INPUT number (Assume input is 10)
- Add 40 to the number.
- Multiply the result by 2.
- OUTPUT result.

What is the final Output: \_\_\_\_\_



**B. Also draw the flowchart in the box on the right →**

**6. True or False:**

- URL stands for Unique Resource Locator. (True / False)
- The "s" in https stands for "secure," meaning data is encrypted. (True / False)
- An IP address is like a home address for your computer on the internet. (True / False)

**7. Tick which of the following statements about variables are true:**

- A variable stores information that can change.
- A variable is like a container that holds data.
- The value of a variable can change while a program is running.
- A variable can only be assigned a value once and cannot be changed afterward.
- Variables can store different types of data, such as text, integers, decimals, or characters.

**8. Identify the following:**

- I request a website: \_\_\_\_\_
- I look up the matching IP address for a particular domain name: \_\_\_\_\_
- I host the website: \_\_\_\_\_

9. Use the following substitution cipher to decode the two given sentences:

**Quick brown fox jumps over the lazy dog**

becomes:

**JXOEA WKGVF YGB PXDHL GCTK ZIT SQMN RGU**

This sentence and its code has been placed in the following table for easy reference:

Q	U	I	C	K	B	R	O	W	N	F	O	X	J	U	M	P	S	O	V	E	R	T	H	E	L	A	Z	Y	D	O	G
J	X	O	E	A	W	K	G	V	F	Y	G	B	P	X	D	H	L	G	C	T	K	Z	I	T	S	Q	M	N	R	G	U

**Sentence 1:                      ZIT LGYZVQKT XLTG XGDTFZL DTLLQUTL LTEXKT**

**Decrypted Text:**

**Sentence 2:                      ZTQEIOFU EGDHXZTKL ZG ZIOFA DQATL DT LIQKHTK**

**Decrypted Text:**

10. A. The following message has been encrypted following the rule that the letter U is actually R when decoded. Decode the full message to see what is actually means:

**URURWVW HDW GXULQJ PDWK FODVV**

**Decrypted Text:**

B. Now encrypt the following sentence using the same rule for encryption. Now R will become U, T will become W and so on.

**Actual Text:                      I will prepare well for my computing assessment**

**Encrypted Text:**

11. If your Browser shows a message that reads "This Site cannot be reached", state what you think could be the reason.

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