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Domain	Standards	Questions	Marks
Computing Systems / Web Development	9-12.CS.1 / 9-12.CS.2 / 9-12.CS.3	1-3	/14
	9-12.IC.24 / 9-12.IC.30	4	/6
	9-12S.NI.3/ Practice	5	/10

1. **Choose the correct answer:**   [5 Marks , 1 mark each]

1) Which of the following systems can be integrated with the computing systems?

a) Biological systems

b) Mechanical systems

c) Social systems

d) All of the above ✓

2) _____ is an example of embedded systems.

a) Pacemaker

b) Supercomputer

c) Translating software

d) Mobile phones

3) The input and output devices are a part of which level of abstraction?

a) Hardware level abstraction

b) Software level abstraction

c) Application-level abstraction

d) None of the above

4) The _____ understands only the machine language, that is, 0s and 1s.

a) Application software

b) Microcontroller

c) Actuator

d) Sensor

5) Which of the following features are used in biometric verification?

a) Iris scanning
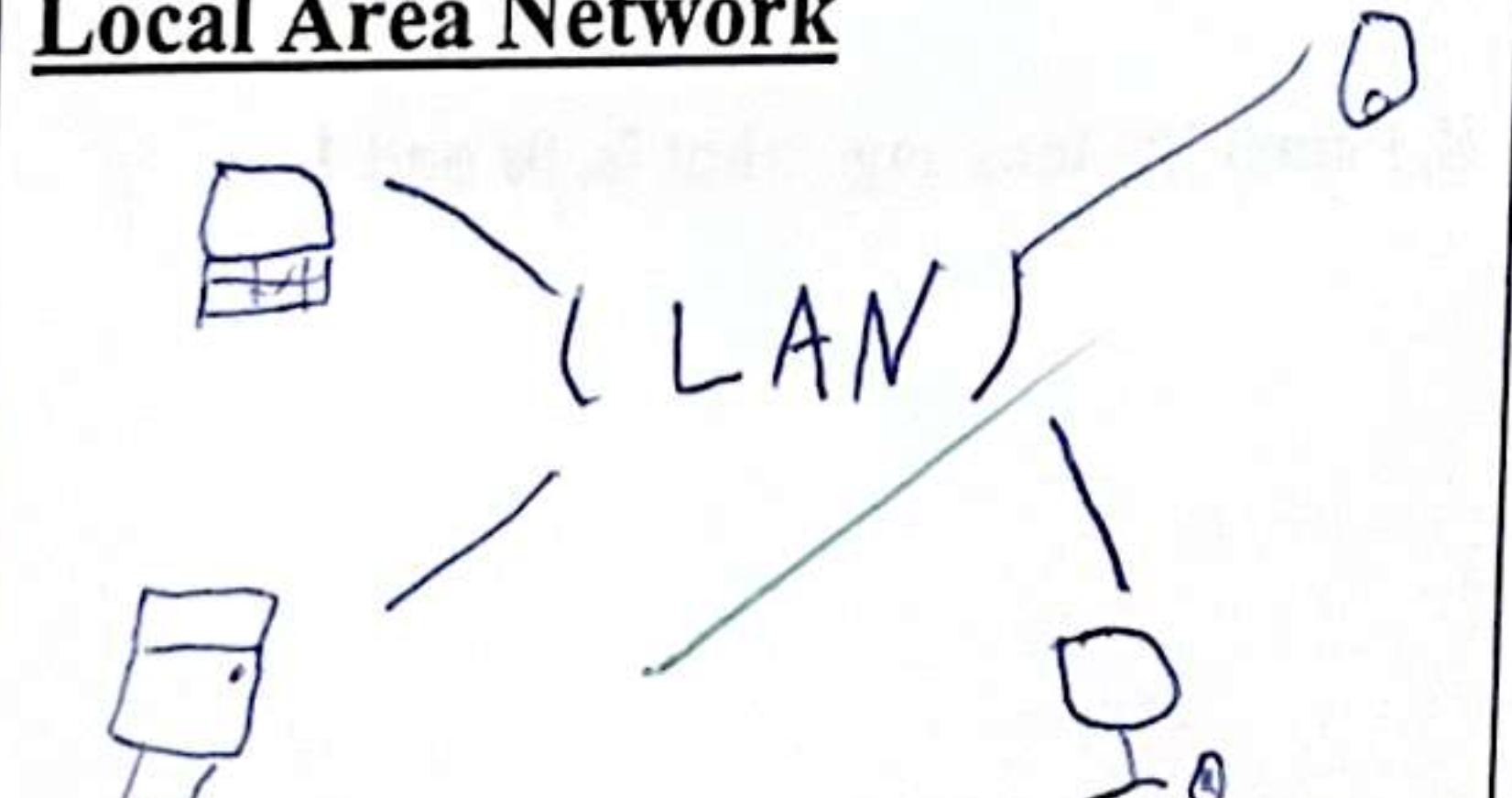
b) Voice recognition

c) Pin or Password

d) Both a and b

1

2) Fill in the blank with the correct words from the word bank: [5 Marks, 1 mark ea

Device drivers	Microphone	Personal area network	Digital signals	Internet

a) The operating system interacts with the hardware through _Device drivers_

b) ADC converts analog signals to _Digital signals_ .

c) In hearing aids, _microphone_ converts sound waves to electrical signals.

d) The _(PAN)(PAN)_ is a type of network in which multiple devices within a home network are connected together.

e) _Internet_ is a global network that connects millions of computers and other electronic devices.

3) Differentiate between the next terms based on the given criteria:
[4 Marks, 1 mark each

Based on Size	
Personal Area Network (PAN) (WAN) (PAN) (WAN) WAN	(PAN) is a (LAN) and (WAN) combined is a large area networks like connect in the mall
Local Area Network (LAN)	(LAN) is a small area network like in your house.

2

4) Write True or False beside each sentence: [6 Marks , 1 mark each]

a) The router is aware of the IP address of the website qubitsedu.com before sending a request to the DNS resolver.

(F)

b) The DNS resolver's role is to look up the unique IP address associated with the domain name that was entered in the web browser.

X (F)

c) The protocol used for communication between devices in this process is called Transmission Control Protocol (TCP).

(T)

d) Application software is the lowest level of abstraction in embedded systems.

X (T)

e) The hardware level in a thermostat includes components such as temperature sensors and microcontrollers.

(T)

f) When you type a URL into a web browser and press Enter, your device sends a request to the DNS resolver over a local Wi-Fi network.

(T)

5) Create a "Book Review" form using HTML. Your form should include the following elements: [10 Marks , 1 mark each]

- A main heading of **Book Review**.
- Use the property text-align to for the heading and set its value to center and set its color to #f18180 .
- An **input** for the **reviewer's name**.
- An **input** for the reviewer to create a **secure password** (for account access).
- An **input** to indicate if the reviewer would like to **receive updates about new book releases**.
- A set of **radio buttons** to select the **rating of the book** (1 Star, 2 Stars, 3 Stars, 4 Stars, 5 Stars).
- An **input** for the **date the book was read**.
- A **dropdown menu** to select the **genre of the book** (Fiction, Non-Fiction, Mystery, Fantasy, Biography).
- A **textarea** with a **placeholder** for the reviewer to write their **comments or insights about the book**.
- A **submit button** to send the review.

Instructions:

1. Open Visual Studio Code and write the HTML code for a webpage about your favorite animal.
2. Use all of the required tags as part of the structure.
3. Save the file as **Book Review.html** and open it in a browser to view your web page

3

Your Output Should be like this:

Book Review

Name: [   ]

Create a Password : [   ]

Receive updates about new book releases ? ☐

Book Rating
1 Star ○
2 Star ○
3 Star ○
4 Star ○
5 Star ○

Date Read: [mm/dd/yyyy 📅]

Genre: [Fiction ▾]

Comments:
[Write your comments or insights about the book]

[Submit Review]

	Fully	Partially	struggling
I can identify the types of data, procedures, and abstraction in embedded systems.	Fully	Partially	struggling
I can analyze the impacts of computing.	Fully	Partially	struggling
I can explore how a connection is established between the communicating devices.	Fully	Partially	struggling
I can understand different types of networks based on transmission medium and size	Fully	Partially	struggling
I can create an HTML form with various input types.	Fully	Partially	struggling
I can use attributes, dropdown and buttons in the form	Fully	Partially	struggling