\*Correct Answers are the options in **BOLD**

**Section – 1 Quiz.**

Which of the following sequence of components meaningfully describes the IOT framework?

**Things ->Connect ->Collect ->Learn ->Do.**

Things -> Collect ->Learn -> Connect -> Do.

Things ->Learn -> Do -> Collect -> Connect.

Things -> Connect -> Collect -> Do -> Learn.

Which of the following is an apt description of the term **THING**?

**A device/physical object which provides networking capability and thus can be operated over a network (generally the Internet).**

Any physical object that you see around you.

Only Computers and other electronic devices.

None of the above.

Which of the following functions as a Stream Processor to channelize the data to various locations?

**Azure Stream Analytics Job**

Azure Blob Storage

Azure Cosmos Database (DB)

Azure IoT Hub

Which of the following storage facilities would you be using to store the data that you do not need immediately?

**Cold Path Storage – Azure Blob Storage**

Cold Path Storage – Azure Cosmos DB

Warm Path Storage – Azure Cosmos DB

Warn Path Storage – Azure Blob Storage

Where is the data processed in edge devices?

**In on-premise processing facilities.**

In the cloud.

Data processing doesn’t happen in edge devices.

None of the above.

Which of the following is the most critical parameter in the context of real-time systems?

**Reaction time / Reflex time**

Power consumption

Bandwidth Usage

Memory occupied

Which of the following approach is used by cloud service providers (CSP’s) to keep your data unaffected in cases of disasters?

**Duplication (At a different data-center).**

Advising users to keep acopy of their data with themselves in their local storage facilities (Machines).

In case of disasters at a data once lost, is lost forever, the CSP cannot do anything about it.

None of the above.

SaaS stands as a acronym for?

**Software-as-a-Service**

System as a Service

System as a Software

Software as a System

**Section – 2 Quiz.**

Which type of Authentication have we used to register a virtual device with our Azure IoT Hub?

**Symmetric Key**

X.509 Self-Signed

X.509 CA Signed

None of the above

Which of the following is the easiest & simplest method to program our SparkFun ESP32 Thing?

**Using the Arduino IDE**

Using the Espressif IDF (IoT Development Framework)

Using any Text editor of our choice

None of the above

What is the unit for Baud rate / upload speed?

**bits/sec**

bytes/sec

kb/sec

kB/sec

What does the WiFi.begin method of the WiFi.h header file return when the board has not yet successfully connected to the specified Wi-Fi network?

**WL\_IDLE\_STATUS**

WL\_NOT\_CONNECTED

WL\_CONNECTED

WL\_WAITING

Which protocol are we using to send telemetry sensor data to the cloud?

**MQTT – Message Queuing Telemetry Transport**

AMQP – Advanced Message Queuing Prototcol

COAP – Constrained Application Protocol

None of the above

CLI stands as an acronym for

**Command Line Interpreter**

Command Line Interface

Custom Language Interface

Command Language Interpreter

The abbreviation of SSH is

Secure Shell

Secure Socket Shell

**Both A & B**

None of the above

SFTP stands as acronym for

**SSH File Transfer Protocol**

Secure File Transfer Protocol

Socket File Transfer Protocol

Simple File Transfer Protocol

**Section – 3 Quiz.**

What is a Service Bus Namespace?

It is a scoping container for messaging components like the Queues, Topics & Subscriptions etc.

It is the name assigned to your service bus.

It is one of the core messaging components of the Service Bus.

None of the above.

Which of the following are true about Azure Service Bus?

1. It is fully-managed.
2. It is enterprise integration message broker.
3. It decouples applications & services from each other.
4. Data is transferred from applications & services in the form of ***messages***.

(a), (c)

(a), (b), (d)

**(a), (b), (c), (d)**

(b), (d)

JSON stands as an abbreviation for

**JavaScript Object Notation**

JavaScript Orientation

JavaScript Object Name

JavaScript Object Negation

The Service Bus Topics & Subscriptions messaging component is present in

**Both Standard & Premium pricing tier only.**

Premium pricing tier only.

All the three Basic, Standard & Premium pricing tiers.

None of the above.

Which of the following enable an **1:n** relationship between Publishers & Subscribers?

**Topics & Subscriptions.**

Queues.

Rules & Actions.

None of the above.

PaaS is an acronym for

**Platform as a Service**

Performance as a service

Profit as a service

Platform as a software

Which of the following is the correct abbreviation for SQL?

**Structured Query Language**

Semantic Query Language

Simple Querying Language

Structured Queueing Language

What is the function of the json.loads() method?

**Converts “json string” datatype into a Python Dictionary (dict) datatype.**

Converts “**bytes**” datatype into a string (str) datatype.

Converts “**a python object (dict)**” datatype into a json string (str) datatype.

Converts “**json string**” datatype into bytes datatype.

What does the following cronjob expression mean: 30 **0,2,4** \* \* \*

**The cronjob is executed at 00:30, 2:30, 4:30 instants of time every day of the month(dom), month of the year(moy) and every day of the week (dow).**

The cronjob is executed at 12:30, 14:30, 16:30 instants of time every, day of the month(dom), month of the year(moy) and every day of the week (dow).

The cronjob is executed every half an hour (30 minute intervals) during all the even hours.

Invalid syntax.

**Section – 4 Quiz.**

Choose True or False:

A single Stream Analytics Job can be configured to have multiple output sinks.

**True**

False

API stands as an acronym for

**Application Program Interface**

Application Peripheral Interface

Application Platform Interface

None of the above

Gmail API connector is used to

**Send E-mails to users.**

Make programmable Voice calls and send text messages (SMS’s) to users.

Both (a) & (b).

None of the above.

Which of the following is/are false about Power-BI?

It is a business intelligence tool which helps us to visualize the data and infer insights from data.

It allows sharing of reports and dashboards across an organization.

**Both (a) & (b)**

None of the above

The **$default** consumer group limits the number of simultaneous accesses to

**5**

10

7

No limit, any number of accesses are allowed simultaneously.

Answer True / False:

The functionality of the IoT Hub is made available through its endpoints.

**True**

False

SAS is an acronym for

**Shared Access Signature**

Simultaneous Access Signature

Shared Authenticated String

None of the above

One can control access to an IoT Hub using

Permissions

Authentication / Authorization

**Both (a) & (b)**

None of the above

OpenSSL stands as an acronym for

**Open-Source Secure Sockets Layer**

Open Secure surface Level

Open-Source Surface Security level

None of the above