

[Dashboard](#)  [My courses](#)  [In20-S4-CS3243 \(117881\)](#)  [Quiz](#)  [Mid review quiz](#)

**Question 1**

Not yet answered

Marked out of 10.00

Which of the following are common functions of a typical IoT device

Select one or more:

- ☒ a. Controlling physical world devices
- ☒ b. Sensing the environment
- ☒ c. Working with minimum power consumption
- ☒ d. Communicate with other devices
- ☐ e. Providing rich, interactive user interfaces

**Question 2**

Not yet answered

Marked out of 10.00

Which of the following statements are true about the predefined "loop()" function in an Arduino program?

Select one or more:

- ☒ a. It is the main function where typically the program logic to be included.
- ☐ b. It executes every time where a For-loop is used in the program logic.
- ☒ c. It is executed after the setup() function.
- ☐ d. It is executed whenever the program is waiting for an external input.
- ☒ e. It is executed repeatedly as far as the power is applied to the circuit.

**Question 3**

Not yet answered

Marked out of 10.00

Which of the following programming languages are generally used to develop IoT applications?

Select one or more:

- ☐ a. JAVA SCRIPT
- ☒ b. LUA
- ☒ c. C++
- ☐ d. PHP
- ☒ e. Micro Python

## Question 4

Not yet answered

Marked out of 10.00

Assume that you are designing a traffic control system for a railway level-crossing. The system is expected to operate autonomously by detecting an incoming train and warning the road-users through a traffic signal light. Which is of the following methods can be considered as a "fail safe" mechanism?

Select one or more:

- ☐ a. Having a red colour light that stays steady when there is an approaching train or flashes otherwise
- ☒ b. Having green color light that lights up only when there is no approaching train.
- ☐ c. Having a red colour light which lights up when there is an approaching train.
- ☐ d. Having a red and green colour lights which lights up depending on whether there is an approaching train or not
- ☐ e. Having a red colour light and an alarm sound to indicate an approachign train

## Question 5

Not yet answered

Marked out of 10.00

The term "Arduino" in the context of IoT domain refers to?

Select one or more:

- ☐ a. A microcontroller that can be used build IoT devices
- ☐ b. A programming language used for IoT development
- ☐ c. A circuit board made using ATMEL brand of processors
- ☐ d. A software framework that can be used to build IoT devices
- ☒ e. A complete integrated development environment that is easy to learn and that can be used to develop IoT prototypes

## Question 6

Not yet answered

Marked out of 10.00

Which of the following are micro-controllers used commonly for IoT applications?

Select one or more:

- ☐ a. NodeMCU
- ☒ b. ATEML 328
- ☐ c. EXP8266
- ☐ d. AMD althon
- ☐ e. Intel Pentium

## Question 7

Not yet answered

Marked out of 10.00

Which of the following are the general objectives of an IoT system design

Select one or more:

- ☐ a. High performance computing
- ☒ b. Realtime response
- ☒ c. Smaller circuit board footprint
- ☐ d. Operation with battery power
- ☐ e. Use of AI/ML techniques and technologies

## Question 8

Not yet answered

Marked out of 10.00

Which of the following statement(s) is correct about the pre-defined "setup()" function of an Arduino script?

Select one or more:

- ☐ a. It executes each time an error is detected in the software or hardware
- ☒ b. It executes each time the system is warm-booted.
- ☐ c. It is executed when the user selects the "configure option" of the system
- ☒ d. It executes only once as part of the startup routine.
- ☒ e. It executes each time the circuit is hardware resettled

## Question 9

Not yet answered

Marked out of 10.00

Which of the following function are carried by a "watch-dog timer" module in a microcontroller?

Select one or more:

- ☐ a. Monitoring changes in its input and output pins
- ☒ b. Recover the execution from a condition that could trap the software in an infinite loop.
- ☒ c. Function as a supervisor circuit to recover from certain type of hardware faults.
- ☐ d. Records the time of an external event.
- ☐ e. Counts the number of external events that occur in a given time interval.

## Question 10

Not yet answered

Marked out of 10.00

Which of the following statements describes the functions and features of a bit-addressable IO port in a microcontroller?

Select one or more:

- ☒ a. It always allow the address of the port to be configured through software (i.e. bits in a control register)
- ☒ b. It allows both digital and analog inputs and outputs
- ☒ c. It has a unique IO address for each bit in the processor's IO address-bus space.
- ☐ d. It always uses memory mapped IO addressing.
- ☒ e. It allows individual bits of the IO port to be configured separately.

Previous activity

◀ [Physical layer inetrfaces](#)

Jump to...

## Stay in touch

University of Moratuwa

🌐 <https://uom.lk>

☎ [0094 11 26 400 51](tel:0094112640051)

✉ [info\[AT\]uom\[.\]lk](mailto:info@uom.lk)



📁 Data retention summary

📱 Get the mobile app