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Question 1

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

Question 2

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

Question 3

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

Question 4

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

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

Question 6

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 teh following methods can be considered as a "fail safe" mechanism?

Select one or more:

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

Question 7

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

Question 8

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

Question 9

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

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Select one or more:

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☐ a. It is executed whenever the program is waiting for an external input.

☐ b. It executes every time where a For-loop is used in the program logic.

☒ c. It is the main function where typically the program logic to be included.

☒ d. It is executed repeatedly as far as the power is applied to the circuit.

☒ e. It is executed after the setup() function.

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