**Ls- 1**

Question 1

The unit of resistance is known as \_\_\_\_\_\_\_\_\_.

Options

1. farad (F)

2. Watt (W)

3. Ohm (Ω)

4. Henry (H)

Answers

option3

**MCQ SINGLE CHOICE**

Question 2

The direction of the current is \_\_\_\_\_\_\_\_ with respect to the flow of electrons.

Options

1. backward

2. opposite

3. forward

4. same

Answers

option2

**MCQ SINGLE CHOICE**

Question 3

Direct current flows in a \_\_\_\_\_\_\_\_\_ direction.

Options

1. backward

2. multiple

3. double

4. single

Answers

option4

**MCQ SINGLE CHOICE**

Question 4

\_\_\_\_\_\_\_\_\_\_\_\_ is a type of electrical current, in which the direction of the flow of electrons is backward and forward at regular intervals.

Options

1. AC

2. DC

3. PC

4. QC

Answers

option1

**MCQ SINGLE CHOICE**

Question 5

The \_\_\_\_\_\_\_\_\_\_ activates the transistor.

Options

1. base

2. collector

3. emitter

4. top

Answers

option1

**Ls- 2**

Question 1

A breadboard, also widely known as \_\_\_\_\_\_\_\_\_\_\_\_.

Options

1. blackboard

2. whiteboard

3. photoboard

4. plugboard

Answers

option4

**MCQ SINGLE CHOICE**

Question 2

The breadboard was invented in the \_\_\_\_\_\_\_\_\_.

Options

1. 1950s

2. 1960s

3. 1970s

4. 1980s

Answers

option3

**MCQ SINGLE CHOICE**

Question 3

The longer leg in an LED is \_\_\_\_\_\_\_\_\_\_\_\_.

Options

1. anode

2. cathode

3. negative terminal

4. neither anode nor cathode

Answers

option1

**MCQ SINGLE CHOICE**

Question 4

In \_\_\_\_\_\_ breadboard, there are 1-30 columns and a to j rows.

Options

1. Full

2. Half

3. Mini

4. Micro

Answers

option2

**MCQ SINGLE CHOICE**

Question 5

In a breadboard, there are \_\_\_\_\_ power rows.

Options

1. one

2. two

3. three

4. four

Answers

option2

**Ls-3**

Question 1

Batteries are generally connected in \_\_\_\_\_\_\_\_\_\_\_.

Options

1. parallel

2. series

3. both parallel and series

4. none of these

Answers

option2

**MCQ SINGLE CHOICE**

Question 2

What is the formula for a series connection?

Options

1. RT= R1+R2+R3

2. 1/RT=1/R1+1/R2+1/R3

3. RT= R1-R2-R3

4. 1/RT=1/R1\*1/R2\*1/R3

Answers

option1

**MCQ SINGLE CHOICE**

Question 3

In a parallel connection, if one of the parallel paths is broken, current \_\_\_\_\_\_\_ in the other paths.

Options

1. will not flow

2. will flow

3. will dissolve

4. will fly

Answers

option2

**MCQ SINGLE CHOICE**

Question 4

All the components in a \_\_\_\_\_\_\_\_\_ circuit are connected end-to-end.

Options

1. horizontal

2. diagonal

3. parallel

4. series

Answers

option4

**MCQ SINGLE CHOICE**

Question 5

The circuit is a closed loop in which \_\_\_\_\_\_\_ can travel.

Options

1. electrons

2. protons

3. neutrons

4. atoms

Answers

option1

**Ls- 4**

Question 1

The motor can be rotated both clockwise
and anti-clockwise by changing the \_\_\_\_\_\_\_\_\_ of the battery.

Options

1. Switch

2. Resistor

3. Spring

4. Polarity

Answers

option4

**MCQ SINGLE CHOICE**

Question 2

How many terminals does a Slide switch have?

Options

1. 2

2. 3

3. 4

4. 5

Answers

option2

**MCQ SINGLE CHOICE**

Question 3

The \_\_\_\_\_\_\_\_ retracts in a push button, the contact is interrupted.

Options

1. Switch

2. Resistor

3. Spring

4. Stone

Answers

option3

**MCQ SINGLE CHOICE**

Question 4

Which of the following is not a switch?

Options

1. Basic switch

2. Bell

3. Slider

4. Push button

Answers

option2

**MCQ SINGLE CHOICE**

Question 5

How does a switch help us?

Options

1. Control the flow of the current in the circuit.

2. Control the leakage of the current.

3. Control the flow of heat.

4. Control the flow of water

Answers

option1

**Ls- 5**

Question 1

The \_\_\_\_\_\_\_\_\_\_\_\_ button is used to restart any code uploaded on Arduino board.

Options

1. Push

2. Analog Pins

3. Ground Pin

4. Reset

Answers

option4

**MCQ SINGLE CHOICE**

Question 2

Which are the pins that convert analog signals from analog sensors into digital signals for us?

Options

1. Analog pins

2. Digital pins

3. Safety pins

4. Copper pins

Answers

option1

**MCQ SINGLE CHOICE**

Question 3

Arduino has 6 analog input pins and\_\_\_ digital I/O pins.

Options

1. 16

2. 14

3. 12

4. 10

Answers

option2

**MCQ SINGLE CHOICE**

Question 4

Which of the following is not an Arduino board?

Options

1. Arduino UNO

2. Red board

3. Black board

4. Lilypad Arduino

Answers

option3

**MCQ SINGLE CHOICE**

Question 5

Arduino is a board based\_\_\_\_\_\_\_\_\_\_.

Options

1. Microcontroller

2. Microprocessor

3. Microwave

4. Micron

Answers

option1

**Ls- 6**

Question 1

Control blocks are used to give\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ instructions.

Options

1. Input

2. Output

3. Sensor

4. Control

Answers

option4

**MCQ SINGLE CHOICE**

Question 2

Input or output blocks allow you to \_\_\_\_\_\_\_\_\_

Options

1. Communicate with input or output devices.

2. Block the input and output devices.

3. Hide the input and output devices.

4. Block the signals to the controller.

Answers

option1

**MCQ SINGLE CHOICE**

Question 3

The software which we have used for block based programming for Arduino is \_\_\_\_\_\_\_\_\_\_\_\_

Options

1. Scratch

2. Edublocks

3. MIT

4. Scratch Jr

Answers

option2

**MCQ SINGLE CHOICE**

Question 4

\_\_\_\_\_\_\_\_\_\_\_ programming language allows us to drag and drop blocks of instructions.

Options

1. Text-based

2. Code-based

3. Block-based

4. Algorithm based

Answers

option3

**MCQ SINGLE CHOICE**

Question 5

Humans interact with a computer using?

Options

1. English language

2. French Language

3. Programming language

4. Algorithm

Answers

option3

**Aeromodelling Ls-1**

Question 1

\_\_\_\_\_\_\_\_ force makes flight possible.

Options

1. Lift

2. Push

3. Pull

4. Air

Answers

option1

**MCQ SINGLE CHOICE**

Question 2

\_\_\_\_ is a fun way of learning the science of real aircraft by making small planes and
gliders.

Options

1. Aerofoil

2. aeroplane

3. aeromodelling

4. airport

Answers

option3

**MCQ SINGLE CHOICE**

Question 3

The aircraft wing has a peculiar shape known as \_\_\_

Options

1. aeroplane

2. aerofoil

3. drag

4. thrust

Answers

option2

**MCQ SINGLE CHOICE**

Question 4

\_\_\_ provides the thrust force
required for an aeroplane to propel (move)
forward.

Options

1. aeroplane

2. drag

3. landing gear

4. engine

Answers

option4

**MCQ SINGLE CHOICE**

Question 5

Aeroplanes are controlled by the pilot who sit in the \_\_\_\_\_\_\_\_\_\_\_

Options

1. cockpit

2. fuselage

3. gear

4. tail

Answers

option1

**Ls-2**

Question 1

Birds also do not require a \_\_\_\_\_ they are capable of taking off from anywhere,

Options

1. Trees

2. Poles

3. Roads

4. Pathway.

Answers

option4

**MCQ SINGLE CHOICE**

Question 2

Observe a bird’s wing are thicker in the front than at\_\_\_\_\_\_\_

Options

1. Back

2. Side

3. Front

4. Middle

Answers

option1

**MCQ SINGLE CHOICE**

Question 3

The fastest bird ever known to the human is?

Options

1. Parrot

2. Peregrine

3. Eagle

4. Sparrow

Answers

option2

**MCQ SINGLE CHOICE**

Question 4

Birds produce the lift force by \_\_\_ their wings

Options

1. dragging

2. slopping

3. flapping

4. waving

Answers

option3

**MCQ SINGLE CHOICE**

Question 5

Birds feathers are also shaped like an \_\_\_

Options

1. aeroplane

2. aerofoil

3. wings

4. ailerons

Answers

option2

**Ls-3**

Question 1

\_\_\_\_\_\_\_\_\_\_ is used to heat the flame and make the balloon take a lift.

Options

1. Hydrogen

2. Oxygen

3. Nitrogen

4. Methane

Answers

option1

**MCQ SINGLE CHOICE**

Question 2

The variation of temperature of the
air is caused by having a burner to \_\_\_\_\_\_\_\_

Options

1. Lower temperature

2. close the burner

3. raise the temperature

4. do nothing

Answers

option3

**MCQ SINGLE CHOICE**

Question 3

Which of the following is heavier-than-air aircraft?

Options

1. helicopter

2. cargo plane

3. sea plane

4. all of these

Answers

option4

**MCQ SINGLE CHOICE**

Question 4

\_\_\_\_\_ are very thin and small rubber balloons usually filled with water instead of gas.

Options

1. air balloons

2. water balloons

3. wings

4. gliders

Answers

option2

**MCQ SINGLE CHOICE**

Question 5

A \_\_\_ is a flexible and inflatable bag that can be filled with a gas

Options

1. car

2. truck

3. aerfoil

4. balloon

Answers

option4

**Ls-4**

Question 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the strongest wood that was used for the production of the propeller.

Options

1. Mahogany

2. Walnut

3. Oak

4. All of these

Answers

option4

**MCQ SINGLE CHOICE**

Question 2

A bamboo copter is also a \_\_\_\_\_\_\_\_\_\_\_\_ that is attached to a rotor.

Options

1. wing

2. propeller

3. paper

4. tail

Answers

option2

**MCQ SINGLE CHOICE**

Question 3

\_\_\_\_\_\_\_ is lighter as compared to steel and other materials

Options

1. Metal

2. bronze

3. wood

4. brass

Answers

option3

**MCQ SINGLE CHOICE**

Question 4

Propeller helps the aircraft to move \_\_\_\_\_\_\_\_\_\_

Options

1. backwards

2. upwards

3. downwards

4. forward

Answers

option4

**MCQ SINGLE CHOICE**

Question 5

A propeller is a rounded blade that will rotate in a \_\_\_\_\_\_\_\_\_\_ motion

Options

1. circular

2. linear

3. parallel

4. perpendicular

Answers

option1