

Name:

Group:

Q1/ [30 MARKS] Answer the following MCQs:

- 1) To read analog input from the physical world using a potentiometer, the command will be used for accomplishing this task.
 - a) Digital read serial
 - b) Analog read serial
 - c) Analog write serial
 - d) Digital write serial
- 2) The Arduino and Genuino boards have a circuit inside called an that reads this changing voltage and converts it to a number between.....
 - a) Integrated development environment, 0 and 500.
 - b) GPIO, 0 and 1023
 - c) Analog-to-digital converter or ADC, 0 and 1023
 - d) ICSP circuit , 0 and 1020.
- 3) The command used for reading the output signal from the potentiometer is,
 - a) analogRead()
 - b) digitalWrite()
 - c) AnalogRead()
 - d) DigitalWrite()
- 4) To begin serial communications between your board and your computer, you can use the..... Command.
 - a) serial.Begin(9600);
 - b) Serial.println(9600);
 - c) Serial.Println(9600);
 - d) Serial.begin(9600);
- 5) GPIO stands for, and it can be used as digital input or output.
 - a) Great Portion input/output.
 - b) General Protection input/output.
 - c) General Purpose input/output.
 - d) General port inter operational
- 6) ICSP stands for and it is a protocol used to program micro controllers like the PIC and the AVR chips.
 - a) In-Circuit Serial Programming
 - b) Interface Serial Programming.
 - c) Internal Serial Programming.
 - d) Integrated Standard Programming.
- 7) The built-in LED is connected to Arduino pin 13, and it can be used for
 - a) Blinking.
 - b) Diagnosing.
 - c) Troubleshooting
 - d) None of above.
- 8) The Arduino Programs are called.....
 - a) Source.
 - b) Sketches.
 - c) Drawings
 - d) None of above.
- 9) The built-in pullup resistors are accessed by setting the.....
 - a) digitalWrite() as INPUT_PULLUP
 - b) pinMode() as OUTPUT_PULLUP
 - c) analogWrite() as INPUT_PULLDOWN
 - d) pinMode() as INPUT_PULLUP
- 10) When connecting a sensor to a pin configured with INPUT_PULLUP, the other end should be connected to
 - a) 10 KOHM Resistor.
 - b) Ground
 - c) Arduino pin 12.
 - d) None of above
- 11) There are two special functions that are a part of every Arduino program.....
 - a) main().
 - b) setup() and loop().
 - c) setup().
 - d) loop().

