

1. What is Arduino?
 - a) Microprocessor
 - b) Microcontroller**
 - c) Simulation software
 - d) All of the above
2. How many modes of operation does a 555 timer have?
 - a) 555
 - b) 2
 - c) 3**
 - d) 5
3. What are the compulsory files in a library?
 - a) Header and source code**
 - b) Source and header code
 - c) Keywords, readme and examples
 - d) Only readme, everything else is optional
4. What is "Include Guard"?
 - a) #ifndef and #endif**
 - b) #ifdef and #endif
 - c) Constructor
 - d) Way to secure the Arduino code
5. Pin 8 on Arduino is a PWM pin/
 - a) True
 - b) False**
6. One cannot digitalWrite a component connected to an analog pin.
 - a) True
 - b) False**
7. Who is the best? Exclude Sunks because he doesn't count. Lil bit weak in math.
 - a) Naveen
 - b) Anisha
 - c) Varsha
 - d) Vakesan
8. What does GPIO stand for?
 - a) General Purpose Inner Outer Propeller
 - b) General Purpose Input Output Pins**
 - c) General Purpose Interested Old People
 - d) General Purpose Input Output Processor
9. _____ are pre built circuit boards that fit on top of Arduino.
 - a) Sensors
 - b) Data types
 - c) Breadboards
 - d) Shields**
10. A function is a series of programming statements that can be called. Which command is called when the program starts?
 - a) loop();
 - b) setup();**

- c) (output)
 - d) (input)
11. What is the microcontroller used in Arduino UNO?
- a) ATmega328p**
 - b) ATmega2560
 - c) ATmega32114
 - d) AT91SAM3x8E
12. Which programming language is used for controlling Arduino?
- a) Assembly language
 - b) C languages**
 - c) JAVA
 - d) Any language
13. What does 9600 stand for in serial.begin(9600)?
- a) Slew rate
 - b) Baud rate**
 - c) Byte rate
 - d) All of the above mean the same thing
14. "Arduino is a real microcontroller" –Sunkeerth
- a) True
 - b) False**
15. By default, every digital pin of the Arduino is set to be:
- a) Input**
 - b) Output
 - c) Both
 - d) None
16. Which among these is not a valid function under the servo library?
- a) attached();
 - b) millis();**
 - c) write();
 - d) attach();
17. Arduino can control frequency, volume and duration of a piezo buzzer.
- a) True
 - b) False**
18. Which among these is a valid function under the IR remote library?
- a) enableIRIn();**
 - b) irrecv();
 - c) Resume();
 - d) Decode();
19. Possible values of analogWrite:
- a) 0-1023
 - b) 1-1024
 - c) 0-256
 - d) 0-255**
20. When a relay is off, to which port is COM connected?
- a) NO
 - b) NC**

- c) VCC
 - d) GND
21. "The essence of a circuit lies in the power rails." –Naveen
- a) True
 - b) False**
22. A light dependent resistor is made of
- a) Low resistance metal
 - b) Low resistance semiconductor
 - c) High resistance semiconductor**
 - d) Low conductance metal
23. What does this statement mean: Servo.attach(4);
- a) Connect the wire to 4 GND
 - b) Connect the wire for 4 seconds
 - c) Connect the wire to 4 volts
 - d) Connect the wire to digital pin 4**
24. The LED 7 segment display uses seven individual _____
- a) Light Emitting Diodes**
 - b) Light Restoring Diodes
 - c) Light Dependent Resistors
 - d) Photodiodes
25. This syntax will move the micro servo properly: myServo.write(200);
- a) True
 - b) False**
26. Whenever an instruction is sent to LCD, what must be done?
- a) R/W pin should be toggled low to high to low
 - b) En pin should be toggled low to high to low**
 - c) En pin should be toggled high to low to high
 - d) R/W pin should be toggled high to low to high
27. "Was I so good or was the topic so easy?" Who uses this line extensively?
- a) Naveen
 - b) Vakesan
 - c) Anisha**
 - d) Sunkeerth
28. Data sent/received to/from an LCD is how many bits long?
- a) 16
 - b) 4
 - c) 8**
 - d) 1
29. When a PWM signal is given to the En pin of H-bridge,
- a) Nothing happens
 - b) the direction of motor changes based on the signal
 - c) the speed of the motor changes based on the signal**
 - d) the En pin can't be given a PWM signal
30. When an interrupt is triggered, the program runs the ISR and then comes back to the usual routine.
- a) True**

- b) False
31. When using LCD in 4 bit mode, what all pins are required?
- a) RS R/W En D4 D5 D6 D7
 - b) RS En D4 D5 D6 D7**
 - c) RS R/W D4 D5 D6 D7
 - d) RS R/W En D0 D1 D2 D3 D4 D5 D6 D7
32. "Do you guys have any questions? Any doubts? Anything to say? Anything at all?" Who uses this line extensively?
- a) Anisha
 - b) Varsha**
 - c) Naveen
 - d) Sunkeerth
33. How to print on the next line in LCD?
- a) lcd.print();
 - b) lcd.print("\n");
 - c) lcd.setCursor(a,b);**
 - d) lcd.begin(a,b);
34. How many digital pins are there on the UNO board?
- a) 14**
 - b) 12
 - c) 16
 - d) 20
35. What does the 'p' refer to in ATmega328p?
- a) Production
 - b) Pico-power**
 - c) Power-pico
 - d) Programmable on-chip
36. Arduino source code is converted to ____ (i) using the ____ (ii) compiler.
- a) Object code, AVR_Dude
 - b) Simple C, AVR_Dude
 - c) Simple C, AVR_GCC
 - d) Object code, AVR-GCC**
37. "Don't blow up your components, kids. Check your connections before you power up." –Vakesan
- a) True**
 - b) False
38. What will happen?



- a) Show an error
 - b) Show a warning but not an error
 - c) Execute an infinite loop**
 - d) Print '1'
39. Identify this sensor.



- a) Proximity sensor
 - b) Temperature sensor
 - c) Moisture sensor
 - d) Ultrasonic sensor**
40. Which segments of the 7 segment display would be required to be HIGH to display decimal digit 2?
- a) a, b, c, d and g
 - b) a, b, d, e and g**
 - c) a, b, c, d, e and f
 - d) a, c, d, f and g