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Question Paper Code: U8466

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2024

One credit

Electronics and communication Engineering

21UEC866- ARDUINO PROGRAMMING

(Regulations 2021)

(Common to All Branches)

Duration: 1.30 Hours

Maximum: 30 Marks

Answer ALL Questions

PART A - (30 x 1 = 30 Marks)

1. Expand IDE full form_____. CO1- U
(a) Integrated Development Environment (b) Interfaced Developed Module
(c) Interleaving Deficit Expander (d) Interleaving The Developed Environment
2. _____ is the best product in the Arduino family for Beginners CO1- U
(a) Divide (b) UNO (c) Thrive (d) None of the above
3. Approved voltage for Arduino types are _____ volts CO1- U
(a) 3 and 5 (b) 5 and 10 (c) 6 and 12 (d) 3 and 10
4. Analog pins _____ the signals from an analog sensor. CO1- U
(a) Write (b) Read (c) Peruse (d) Study
5. Expand PMW full from_____? CO1- U
(a) Pulse Width Modulation (b) Pulse Wide Modulation
(c) Plain width Modulation (d) None of the above
6. TX pin represents _____ in Arduino board. CO1- U
(a) Transmits (b) Receives (c) Ground (d) Restarts
7. ARDUINO UNO power regulator can handle voltage from 7 to __ volts DC CO1- U
(a) 10 (b) 15` (c) 12 (d) 13

8. Arduino Due which is 32-bit based on Atmel is introduced in ____? CO1- U
 (a) 2008 (b) 2009 (c) 2011 (d) 2012
9. Every board of Arduino has a five volts ____ regulator? CO1- U
 (a) Vertical (b) Linear (c) Horizontal (d) None of the above
10. Some Arduino boards contain a _____ circuit for conversion of level signals CO1- U
 (a) Oscillator (b) Amplifier (c) Level Shifter (d) Shift register
11. _____ is a function which starts after power-up or reset CO1- U
 (a) Setup (b) Loop (c) While (d) All of the above
12. ARDUINO UNO board can be organized over ____ cable CO1- U
 (a) USB (b) USB Mini-B (c) FTDI (d) Jack
13. Arduinouno has total ____ inputs CO1- U
 (a)16 (b)14 (c)12 (d)20
14. _____ controls the USB Cable of the Arduino red board? CO1- U
 (a)Barrel Jack (b)Strings (c)Controller (d)Sensor
15. Arduino Uno has a _____ inbuilt Led. CO1- U
 (a)1 (b)2 (c)9 (d)4
16. Arduino IDE consists of 2 functions. What are they? CO1- U
 (a) Build() and loop() (b)Setup()and build()
 (c) Setup() and loop() (d) Loop() and build() and setup()
17. Arduino Due depends on _____ controller? CO1- U
 (a) ARM Cortex-M3 (b) ARM cortex (c) Arduino mega (d) None of the above
18. The entire code must end with CO1- U
 (a) Semicolon ; (b) Parenthesis) (c) Comma , (d) Curly Brace }
19. What license is Arduino distributed under? CO1- U
 (a) Proprietary with GNU GPL Ambient user interface (b) Proprietary
 (c) Shareware (d) DLGPL or GPL license

20. Does Arduino is open-source? CO1- U
(a) True (b) False (c) Can be true or false (d) cannot say
21. A forward slash is used for CO1- U
(a) Code (b) Outputs (c) Comments (d) All the above
22. An servo motor is CO1- U
(a) Output (b) Input (c) Both A & B (d) None of the above
23. Why does the LED have different length legs? CO1- U
(a) For ease of inserting into the breadboard.
(b) To indicate which side is negative and which side is positive.
(c) To ensure it does not easily break.
(d) None of the above
24. Do Arduino provides IDE Environment? CO1- U
(a) True (b) False
(c) Based on the application (d) None of the above
25. Which of the following is true about Arduino? CO1- U
(a) Arduino boards are able to read analog or digital input signals from different sensors
(b) Arduino IDE uses a simplified version of C++, making it easier to learn to program.
(c) Arduino provides a standard form factor that breaks the functions of the micro-controller into a more accessible package.
(d) All the above
26. Code writing and uploading into the board is done using _____? CO1- U
(a) Environment (b) PC (c) IDE (d) SOME
27. Expand the full form of USB is _____? CO1- U
(a) United Serial Bus (b) Universal Serial Bus
(c) United Service bus (d) None of the above
28. How many Analog pins exist in Arduino? CO1- U
(a) 9 (b) 5 (c) 6 (d) 10

29. Expand PMW full from _____? CO1- U
- (a) Pulse Width Modulation (b) Pulse Wide Modulation
(c) Plain width Modulation (d) None of these
30. RX pin represents _____ in Arduino board. CO1- U
- (a)Transmits (b)Receives (c)Ground (d)Restarts