

Reg. No. :

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

**Question Paper Code: U8466**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2023

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. Arduino has both software and \_\_\_\_\_ board. CO1- U  
(a) Timing Circuit (b) Break the Circuit  
(c) Programmable Circuit (d) Feedback Circuit
2. The Arduino board is also called as \_\_\_\_\_? CO1- U  
(a) Microprocessor (b) Timer (c) Oscillator (d) Microcontroller
3. \_\_\_\_\_ is the language used by the Arduino IDE to code easily. CO1- U  
(a) C (b) C++ (c) Java (d) Python
4. Without \_\_\_\_\_ Arduino cannot be run. CO1- U  
(a) Power Source (b) Regulator (c) Inverter (d) None of the above
5. 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
6. To ground the circuit \_\_\_\_\_ pin is used in Arduino. CO1- U  
(a) PIN (b) GND (a) PIN (b) GND
7. The 5V pin of Arduino supplies \_\_\_\_\_ volts of power. CO1- U  
(a) 2.5 (b) 10 (c) 5 (d) 0

8. The 3.3V pin of Arduino supplies \_\_\_\_\_ volts of power. CO1- U  
 (a) 3.5 (b) 5 (c) 10 (d) 3.3
9. \_\_\_\_\_ pins are known as digital pins in Arduino. CO1- U  
 (a) 10 (b) 11 (c) 12 (d) 13
10. If the voltage value is 5v then it reaches a \_\_\_\_\_ limit for each analog input. CO1- U  
 (a) Lower (b) Upper (c) Beneath (d) Least
11. TX pin represents \_\_\_\_\_ in Arduino board. CO1- U  
 (a) Transmits (b) Receives (c) Ground (d) Restarts
12. \_\_\_\_\_ model of Arduino is more stable than any other CO1- U  
 (a) Red Board (b) Uno (c) Amplified (d) None of these
13. Arduino uno hold \_\_\_\_\_ analog inputs CO1- U  
 (a) 6 (b) 12 (c) 14 (d) 16
14. Arduino Due which is 32-bit based on Atmel is introduced in \_\_\_\_\_? CO1- U  
 (a) 2008 (b) 2009 (c) 2011 (d) 2012
15. Arduino boards use female headers for connection and establish into another \_\_\_\_\_? CO1- U  
 (a) Timers (b) Circuits (c) Oscillators (d) None of the above
16. Every Arduino board has a \_\_\_\_\_ Mhz crystal oscillator. CO1- U  
 (a) 12 (b) 14 (c) 16 (d) 20
17. Each microcontroller of the Arduino is pre-programmed by the \_\_\_\_\_? CO1- U  
 (a) Amplifier (b) Actuator (c) Bootloader (d) None of the above
18. Some Arduino boards contain a \_\_\_\_\_ circuit for conversion of level signals CO1- U  
 (a) Oscillator (b) Amplifier (c) Level Shifter (d) Shift register
19. Expand LCD \_\_\_\_\_? CO1- U  
 (a) Light crystal display (b) Liquid crystal display  
 (c) Light cube display (d) All of the above

20. The function which repeatedly executes in the main program? CO1- U  
 (a) Setup (b) Loop (c) While (d) All of these
21. Arduino uno board is more stable due to the \_\_\_\_\_ chip CO1- U  
 (a) USB/FTDI (b) FTDA (c) RRL (d) ISP
22. ARDUINO UNO board can be organized over \_\_\_\_\_ cable CO1- U  
 (a) USB (b) USB Mini-B (c) FTDI (d) Jack
23. Arduino uno works at frequency \_\_\_\_\_? CO1- U  
 (a) 12 Khz (b) 14 Mhz (c) 16Mhz (d) 18Mhz
24. Arduinouno has total \_\_\_\_\_ inputs CO1- U  
 (a) 16 (b) 14 (c) 12 (d) 20
25. Arduino UNO has a \_\_\_\_\_ microcontroller. CO1- U  
 (a) Atmega2560 (b) Atmega32ua (c) Atmega32u4 (d) None of these
26. ArduinoUNO holds a total of \_\_\_\_\_ PWM pins. CO1- U  
 (a) 6 (b) 12 (c) 15 (d) 20
27. \_\_\_\_\_ controls the USB Cable of the Arduino red board? CO1- U  
 (a) Barrel Jack (b) Strings (c) Controller (d) Sensor
28. Arduino Uno has a inbuilt \_\_\_\_\_ module . CO1- U  
 (a) RF (b) Bluetooth (c) WIFI (d) None of these
29. Arduino Leonardo has a memory of \_\_\_\_\_ flash. CO1- U  
 (a) 20KB (b) 2.5KB (c) 32KB (d) 64KB
30. Delay(5000); stands for CO1- U  
 (a) Wait 5 Minutes (b) Wait 5 Seconds  
 (c) Wait 50 Seconds (d) Wait 500 Seconds

