

**2403000502069001**  
**EXAMINATION FEBRUARY-MARCH 2024**  
**BACHELOR OF SCIENCE (SECOND SEMESTER) (NEP)**  
**SEC- INTRODUCTION TO ARDUINO THEORY**  
**- LEVEL 6**

[Time: As Per Schedule]

[Max. Marks: 13]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

- a. Name of the Examination : **BACHELOR OF SCIENCE (NEP)(SECOND SEMESTER)**
- b. Name of the Subject : **SEC- INTRODUCTION TO ARDUINO THEORY – LEVEL 6**
- c. Subject Code No : **2403000502069001**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

- Q.1**      1. What type of signal does the analog Write() function output? **13**
- a) Pulse Code Modulated Signal
  - b) Frequency Modulated Signal
  - c) Pulse Width Modulated Signal
  - d) Pulse Amplitude Modulated Signal
2. A program written with the IDE Arduino is called
- a) IDE source
  - b) Sketch
  - c) Cryptography
  - d) Source code
3. Can the loop() function be used to call another function that is custom defined by the programmer?
- a) Yes, it can call
  - b) No, it cannot call
  - c) Yes, it can call but only functions with no return values
  - d) Yes, it can call but only functions with return values
4. Arduino IDE consists of 2 functions. What are they?
5. Why do we use Arduino?

6. What are the functions of time in Arduino?
7. How many times does the setup() function run on every startup of the Arduino System?
  - a) 1
  - b) 2
  - c) 4
  - d) 8
8. What is the function of A0 to A5 pins on the Arduino Uno board?
9. What is the use of setup() function in Arduino?
10. Arduino Codes are referred to as \_\_\_\_ in the Arduino IDE.
  - a) sketches
  - b) drawings
  - c) links
  - d) notes
11. Which of the following is the correct syntax for declaring a variable in an Arduino sketch?
  - a) variable\_name = value;
  - b) variable\_name: value;
  - c) value: variable\_name;
  - d) value = variable\_name;
12. Write the correct syntax for setting the mode of a digital pin as an output in an Arduino sketch?
13. What is Arduino?

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