

2403000502069001
EXAMINATION SEPTEMBER 2024 (ATKT EXAM)
BACHELOR OF SCIENCE (NCP-NEP) SEM-2
SEC-INTRODUCTION TO ARDUINO THEORY

[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 (NCP-NEP) SEM-2**
 - b. Name of the Subject: **SEC-INTRODUCTION TO ARDUINO THEORY**
 - 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.
5. Total marks is 13.
6. All questions carry equal i.e. 1 marks for each question.

Seat No:

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Student's Signature

1. What is the use of the Vin pin present on some Arduino Boards?
2. How many digital input/output pins are there in Arduino uno?
3. Can the setup() function change the value of constant variables?
4. How many analog input pins are there in Arduino uno?
5. How many arguments does the digitalRead() function have?
6. What is the use of loop () function in Arduino?
7. What's the difference between digitalWrite() and analogWrite() in Arduino?
8. Which of the following is not a valid data type in an Arduino sketch?
 - A) int
 - B) char
 - C) float
 - D) double

9. What types of inputs can be used with Arduino?
10. Write the correct syntax for creating a delay of 1 second in an Arduino sketch?
11. Which of the following is the correct syntax for writing a digital output value of HIGH to a digital pin in an Arduino sketch?
- A) digitalWrite(pin, HIGH);
 - B) digitalWrite(HIGH, pin);
 - C) analogWrite(pin, HIGH);
 - D) analogWrite(HIGH, pin);
12. What are the functions of time in Arduino?
13. Which of the following statements is true about the loop() function in an Arduino sketch?
- A) It runs once at the beginning of the sketch
 - B) It runs continuously while the sketch is running
 - C) It handles the input/output operations of the sketch
 - D) It is used to define custom functions in the sketch
