1 point





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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Introduction To Internet Of Things (course)



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Co	urse
Out	line

About NPTEL

()

How does an NPTEL online course work? ()

17

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Lecture 21:
Interoperability
in Internet of
Things (unit?
unit=55&lesson
=56)

5) State True or False.

Oa True

is called Systematic Interoperability."

Week n/2025 o Trexam	5 ·	Ass	ign	ment	5
n/2025 01/exam	TOTIII/Q	asniboard)	O		

Your last recorded submission was on 2025-02-19, 19:23 IST	Due date: 2025-02-26, 23:59 IST.
1) Which of the following is/are current challenges in IoT?	1 point
○ a. Large scale of co-operation	
O b. Global heterogeneity	
oc. Both (a) and (b)	
Od. Neither (a) nor (b)	
2) State True or False.	1 point
Statement: "Interoperability is not a characteristic of a produc	ct or system."
○ a. True	
o b. False	
3) Interoperability is required because	1 point
\bigcirc a. There are different programming languages	
\bigcirc b. There are different communication protocols	
Od. Neither (a) nor (b)	
4) State whether the following statement is true or false	1 point
Statement: "Use of different programming languages such as others is an example of heterogeneity in IoT. This brings in the nee	• •
○ a. False	
o b. True	

Statement: "The interoperability between devices and device users in terms of message formats

C Lecture 22 :	o b. False	
Introduction to Arduino- I (unit?	6) What is the full form of UMB in IoT interoperability?	1 point
unit=55&lesson =57)	○ a. Universal Meta Bridge	
C Lecture 23 :	O b. Universal Main Bridge	
Introduction to	○ c. Universal Main Bracket	
Arduino- II	od. None of these	
(unit? unit=55&lesson	7) Olaha husa affala	4
=58)	7) State true of false	1 point
C Lecture 24 :	Arduino is an open-source electronic programmable board.	
Integration of	a. True	
Sensors and Actuators with	O b. False	
Arduino- I (unit?	S. False	
unit=55&lesson =59)	8) State true or false	1 point
C Lecture 25 :	Additional electronic circuits are essential to load a program into the Arduino con	traller board
Integration of		tiolier board.
Sensors and Actuators with	O a. True	
Actuators with Arduino- II	● b. False	
(unit? unit=55&lesson	9) Arduino UNO has number of Digital I/O pins.	1 point
=60)	○ a. 8	·
Lecture material	O b. 13	
of Week 5 (unit?	© c. 14	
unit=55&lesson =61)	Od. None of these	
○ Week 5		
Feedback Form	10) What does the following code do?	1 point
(unit? unit=55& l esson	<pre>int ledPin = 13;</pre>	
=309)	void setup() {	
Quiz: Week 5 :	<pre>pinMode(ledPin, OUTPUT);</pre>	
Assignment 5	<pre>for (int i = 0; i < 3; i++) { digitalWrite(ledPin, HIGH);</pre>	
(assessment? name=317)	delay(1000);	
	<pre>digitalWrite(ledPin, LOW);</pre>	
Week 6 ()	delay(500);	
Download	}	
Videos ()	void loop() {	
Packs ()	// Do nothing	
Books ()	}	
Text	a) Blink 3 times with 1000ms ON and 500ms OFF	
Transcripts ()	O b) Blink 3 times with 500ms ON and 500ms OFF	
Live	C) Blink 3 times with 1000ms ON and 1000ms OFF	
Interactive	Od) Stay ON continuously	
Session ()	11) How many types of loops will you find in Arduino Programming?	1 point
	○ a. 1	
	○ b. 2	
	© c. 3	
	O d. 4	

12) Choose the right option for if/conditional operator.	1 point
a. Val = (condition)?(Statement 1):(Statement 2)	
O b. Val = (condition)?(Statement 2):(Statement 1)	
○ c. Val = (condition):(Statement 1)?(Statement 2)	
Od. Val = (condition):(Statement 2)?(Statement 1)	
13) What is the purpose of calling dht.begin(); in the setup() function?	1 point
○ A) To initialize the Serial Monitor	
B) To start communication with the DHT sensor	
\bigcirc C) To set the temperature and humidity values to zero	
OD) To define the data pin for the sensor	
14) What function is used to read the humidity value from the DHT sensor?	1 point
○ A) dht.getHumidity();	
○ B) dht.readTemp();	
Odo C) dht.readHumidity();	
O D) dht.getTemperature();	
15) What function is used to set the servo motor to a specific angle?	1 point
○ A) ServoDemo.move()	
OB) ServoDemo.rotate()	
C) ServoDemo.write()	
OD) ServoDemo.setAngle()	
You may submit any number of times before the due date. The final submission will be congrading.	sidered for
Submit Answers	