

MPTEL

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Courses » Design for internet of things

Announcements Course Ask a Question Progress Mentor

Unit 9 - IoT Case Studies

Course outline	Week8 Assessment	
	The due date for submitting this assignment has passed. Due on 2017-09-20, 23:	59 IST.
How to access the portal	Submitted assignment	
Introduction to IOTs - Improving Quality of Life	1) What was the necessity to tap out two different voltages i.e 'x' Volts and 'y' Volts from the step down transformer?	1 point
	To power the microcontroller using the 'x' volts supply and the wifi chip(CC3000) using	g the 'y'
System Design and Overview of	volts supply. To power only the microcontroller with two different voltages depending on the require	mont
Power Supply Section	To power the microcontroller using the 'x' volts supply and the potential transformer measurement using the 'y' volts supply.	ment.
Designing with	No, the answer is incorrect.	
LDO's, Switching Regulators and	Score: 0	
Case Studies	Accepted Answers:	
	To power the microcontroller using the 'x' volts supply and the potential transformer measure	ement using
Power Conditioning	'y' volts supply.	
vith Energy	2) Which of the following is not a part of the Joule Jotter hardware?	1 point
larvesters	O Potential transformer	
Battery less	Current transformer	
ower supply	Switching regulator	
and battery life	O LDO	
embedded	No the evenue is incomed	
devices	No, the answer is incorrect. Score: 0	
oT Protocols	Accepted Answers:	
	Switching regulator	
oT LAN and WAN	3) What is the purpose of configuring registers on ADE7953?	1 point
Connectivities	3) What is the purpose of configuring registers on ADE 1933:	1 point
	Calibrate the sensed values	
oT Case Studies	Store the values on the buffer	
Choice of	Send the values to the microcontroller	
Microcontrollers	None of the above.	
Case Study 1	No, the answer is incorrect.	
Case Study 2	Score: 0	
Quiz : Week8	Accepted Answers:	
Assessment	Calibrate the sensed values	
o solutions for	4) ESP8266 can be configured as	1 point

Wi-Fi Direct

Week 8

Assessment

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Wi-Fi Access Point	
Repeaters	
All of the above	
No, the answer is incorrect.	
Score: 0	
Accepted Answers:	
All of the above	
5) Why was an android app developed for Joule Jotter?	1 point
To configure the joule jotter with necessary parameters	
To turn on and turn off the joule jotter remotely	
To power the ESP8266 module	
None of the above.	
No, the answer is incorrect. Score: 0	
Accepted Answers: To configure the joule jotter with necessary parameters	
	1 maint
6) Which type of calibration is done on the joule jotter?	1 point
Gain Calibration	
Phase Calibration	
Offset Calibration	
All of the above	
No, the answer is incorrect. Score: 0	
1 222.0	
Accepted Answers: Gain Calibration	
Phase Calibration	
7) A smart phone user running a localization app takes a 90' turn in a corridor in the texting	1 noint
mode. Which among these sensors is a good indicator?	1 point
Accelerometer	
Gyroscope	
Magnetometer	
barometer	
No, the answer is incorrect.	
Score: 0	
Accepted Answers:	
Magnetometer	
8) In the Zigbee-Bluetooth gateway system, the simplest way to implement the bluetooth (advertisement mode) would be to ensure the Zigbee packet size is:	1 point
Equal to the bluetooth payload	
Less than the bluetooth payload	
More than the bluetooth payload	
There is no relation to packet sizes	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Less than the bluetooth payload	
9) There are 8 bit, 16 bit and 32 bit microcontrollers available. We would like to design a syste	m 1 point
which runs on a monolithic code block along with timers to sense various sensors over fixed into	-
time. Which microcontroller among the available would you choose.	
8 bit microcontroller	

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16 bit microcontroller	
32 bit microcontroller	
Any of these	
No, the answer is incorrect. Score: 0	
Accepted Answers: 8 bit microcontroller	
10) There is an application which involves math intense functions to be calculated in very less interval of times by the microcontroller which is involved. Your choice would be	1 poin
 32 bit microcontroller with Harvard architecture and CISC instruction set 32 bit microcontroller with von Neumann architecture and RISC instruction set 32 bit microcontroller with Harvard architecture and RISC instruction set 16 bit microcontroller with Von Neumann architecture and CISC instruction set 	
No, the answer is incorrect. Score: 0	
Accepted Answers: 32 bit microcontroller with Harvard architecture and CISC instruction set	
11)Among how many calculated IBI's are we averaging out BPM in pulse sensor application?	1 poin
O 7	
O 10	
O 15	
O 20	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
10	

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