

# Biology 103 FINAL EXAM

What are the key characteristics of living things? - -(1) Orderliness, complexity, organization

(2) energy use and production, metabolism

(3) balance, homeostasis

(4) irritability, adaptation (evolution)

(5) reproduction, growth, development

The sum of all the chemical reactions that take place in the body is called \_\_\_\_\_. -

-metabolism

Taxonomic Hierarchy (IN ORDER!) - -Domain, Kingdom, Phylum, Class, Order, Family, Genus, Specific Epithet

What two parts make up a scientific name? - -genus and specific epithet

What is the scientific method? - -The process that scientists use to evaluate ideas and information.

What are the parts of the scientific method? - -Observation, Information, Hypothesis, Repeated experimentation, conclusion, retest conclusions

What is taxonomy? - -The scientific naming and classifying of organisms

What is the proper term for a scientific name? - -Binomial Nomenclature

Who developed binomial nomenclature? - -Carl Linnaeus

A \_\_\_\_\_ is a hypothesis that has withstood the test of time and much experimentation - -scientific theory

In experiments, a \_\_\_\_\_ is a group that is the same as an experimental group except for one variable; used as a standard of comparison - -control group

What is an atom? - -basic unit of matter

What are the 3 subatomic particles in an atom and where are they found? - -Protons (nucleus), Neutrons (nucleus), Electrons (electron shells).

What is the charge of a proton? - -positive

What is the charge of a neutron? - -neutral

What is the charge of an electron? - -negative

# Answers Biology Final Exam Review Study Guide

**Amy S, Gaumer Erickson, Patricia M.  
Noonan**



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*three phase voltage measurement using pic microcontroller* - Jan 28 2022

web oct 6 2018 the ac voltage measurement using pic microcontroller can be done using a difference amplifier or potential transformer the difference amplifier or potential transformer is used to step down the voltage and then by using analog to digital converter or rectifier the voltage reading is displayed on lcd display

digital voltmeter using 7 segment display and pic microcontroller - Feb 09 2023

web digital voltmeter with 7 segment display circuit diagram a picture below shows the circuit diagram of dc voltmeter with four digit seven segment display and voltage divider circuits interfacing with pic16f877a microcontroller but you can use any other pic microcontroller also

**measure pic s own vdd in voltage with adc** - Mar 30 2022

web mar 19 2015 i ve just made and succesfully tested code to measure the voltage on an4 analog pin now i want to try something else not quite sure if it s theoretically possible my test board has a pic processor with vdd avdd connected to a supply ranging from 0 if the battery is empty disconnected to 4 2 full battery

**ac voltage measurement using pic microcontroller youtube** - Sep 04 2022

web ac voltage measurement using pic microcontroller in this video lecture you will learn about ac voltmeter design circuit using current transformer and difference amplifier how to use show

ac voltage measurement using pic microcontroller two methods - Aug 15 2023

web jul 30 2023 the diagram below shows the simulation results of an ac voltage measurement project the lcd displays a reading of 220 volts ac which is measured using a microcontroller and the necessary components connected to it including a potential transformer how to measure ac voltage using pic microcontroller



**microcontroller how do i measure a negative voltage with a adc** - Nov 06 2022

web i am working with a pic micro controller with inbuilt 10bit adc and want to measure a voltage in the range of 1 to 3volts i thought of using an op amp in the inverting mode to make voltage positive and then feed it to the adc of the microcontroller however here i would have to power the opamp with a negative power supply right

voltage measurement with a pic microcontroller michigan state - Jun 13 2023

web the pic18f4520 is a 40pin microcontroller with numerous functions and applications one of its many functions is analog to digital conversion through this the pic is capable of reading an analog voltage and turning it into a digital readout that can be used in a program the circuitry and code required to create a basic voltage sensor is minimal

**how to measure battery voltage from a microcontroller** - Aug 03 2022

web apr 25 2016 my answer would be get a shunt type reference for a voltage that is lower than the battery range of interest let s assume a 5v battery and a tl431 or the like as 2.5v reference now measure the tl431 voltage using the battery as reference assume a 10 bit a d most common that reads n now you know that n battery  $1023 \times 2.5$

*three phase voltage measurement using pic microcontroller* - Apr 30 2022

web the circuit diagram of three phase voltage measurement system is given below as you can see in the circuit diagram we are using three phase generator and the voltage of each phase is measuring with the same circuit phase one phase two and phase three measurement circuit are the same

*how to measure mains ac voltage with an adc from a microcontroller* - Oct 05 2022

web jul 6 2016 i want to measure the mains voltage 230v 50hz using an adc channel from a microcontroller this is my current approach below i have two schematics that add two voltages one direct one alternating added to that the both the ac and dc signals are going through voltage divider but that isn t important

**digital voltmeter using pic microcontroller project and circuit** - May 12 2023

web digital voltmeter using pic microcontroller in this project a digital voltmeter using pic microcontroller is designed digital voltmeter using a pic can read the voltage from 0 40 volt this voltmeter can read only dc voltage digital ac voltmeter can also be designed using microcontrollers