

EMT BASIC FINAL EXAM **STUDY GUIDE**

Sympathetic nervous system

fight or flight.(body more alert, pupils dilate, heart rate increases)

parasympathetic nervous system

rest and digest.(pupils constrict, heart rate decreases)

scope of practice

a set of regulations and ethical considerations that define the scope, or extent and limits, of the EMT's job

standard of care

Written, accepted levels of emergency care expected by reason of training and profession; written by legal or professional organizations so that patients are not exposed to unreasonable risk or harm.

Negligence

- duty to act
- breach of duty
- injury occurred
- proximate cause

medulla oblongata

controls vital signs such as pulse, breathing, and BP

suction pressure

30lpm; 300mmHg

nasal cannula

1-6lpm(24-44%

non-rebreather

10-15lpm(60-80% O₂)

BVM

up to 15lpm(90-95 O₂)

venturi mask

typically used for COPD patients.(24, 28, 35, 40%)

infant respiration rate

30-60 breaths/min

adult respiration rate

12-20 breaths/minute

children respiration rate

15-30 breaths/min

calculate pediatric BP: 12 year old male

$80 + (\text{age} \times 2)$ then $1/3$ of that

$80 + (12 \times 2) = 104$

$1/3 \text{ of } 104 = 34$

Aehlerts Emt Basic Study Guide

Barbara Aehlert, Garret Olson



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voltage divider is used but we can also use an operational amplifier to step down the voltage across the load resistor how to
measure the secondary side current of ct

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web you mean with a microcontroller the impedance note about analog sources probably means that if the sources are higher
than 2 5k the input on the pic will start to load them down you usually want a source impedance to be at least ten times
smaller than the load impedance so that it is not disturbed by the load impedance

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independent peripherals cips that are found on the pic18 microcontrollers the project uses less code and cpu cycles since the
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web the pic micro reads the input voltage through one of the 8 analog channels and convert it to a 10 bit digital number

using the internal adc doing some math with adc conversion you will see later this number can be converted to the actual measured voltage the voltage is displayed in an hd44780 based character lcd

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web may 20 2012 adc module of pic microcontroller converts the signals on its analog pin to 10 bit binary data and it has software selectable high and low voltage reference input to some combination of vdd vss ra2 and ra3 the analog input to pic is limited to vss and vdd voltages 0 5v of pic this circuit is designed to measure 0 to 30v

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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

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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