

Electrical Engineering Final Exam

A *hazardous material* found in existing self-luminous exit signs:

1.

	a.	PCDS	
	b.	tritium	
	c.	lead	
	d.	asbestos	
2.	A hazardous material found in existing manholes and handholes:		
	a.	asbestos fireproofing	
	b.	PCBs	
	c.	tritium	
	d.	mercury	
3.	For <i>coastal and high humidity areas</i> , base, cabinets, and tanks of all transformers must be corrosion resistant and be fabricated of:		
	a.	aluminum	
	b.	malleable iron	
	c.	magnesium	
	d.	stainless steel	
4.	Load analysis should use rated main overcurrent protective devices for service		
	sizes 400 amperes and larger.		
	a.	95%	
	b.	100%	
	c.	50%	
	d.	80%	
5.	Considering <i>motor starting/flicker analysis</i> , motor calculations must account for both and running current.		
	a.	idle	
	b.	dormant	
	c.	starting	
	d.	maximum	

6.	A <i>motor starting/flicker analysis</i> should be provided for motors hp and greater. a. 25 b. 60 c. 40 d. 10
7.	With regards to <i>pole details</i> , initial sag values should be provided at ambient temperatures in increments for a temperature range, which includes the outside summer and winter design temperature values. a. 5 degree C (9 degree F) b. 15 degree C (27 degree F) c. 20 degree C (36 degree F) d. 10 degree C (18 degree F)
8.	 MDP is an abbreviation for: a. Main Distribution Panel b. Motor Development Plan c. Main Designation Panel d. Multi-Distribution Panel
9.	An electrical system having a maximum root-mean-square (rms) voltage of less than 1,000 volts is a: a. medium voltage system b. high voltage system c. residential system d. low voltage system
10.	Loads that convert AC to DC and contain some kind of rectifier are: a. linear loads b. non-linear loads c. rectified loads d. sine loads