edcetera engineering

Electrical Engineering Final Exam

1. A *hazardous material* found in existing self-luminous exit signs:
   a. PCBs
   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 *coastal and high humidity areas*, 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 *motor starting/flicker analysis*, motor calculations must account for both _____ and running current.
   a. idle
   b. dormant
   c. starting
   d. maximum

6. A *motor starting/flicker analysis* should be provided for motors _____ hp and greater.
   a. 25
   b. 60
   c. 40
   d. 10

7. With regards to *pole details*, 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