SAMPLE QUESTIONS

1. Which one of the following statements regarding lateral earth pressures is correct?

   (A) The lateral strain required to fully mobilize the soil passive pressure is considerably smaller than the lateral strain required to fully mobilize the soil active pressure.

   (B) The lateral strain required to fully mobilize the soil passive pressure is slightly smaller than the lateral strain required to fully mobilize the soil active pressure.

   (C) The lateral strain required to fully mobilize the soil passive pressure is slightly greater than the lateral strain required to fully mobilize the soil active pressure.

   (D) The lateral strain required to fully mobilize the soil passive pressure is considerably greater than the lateral strain required to fully mobilize the soil active pressure.

2. A construction company has 750,000 employee hours worked with the following safety record:

Incidence Category	No. of Incidences
Minor injuries (first aid only)	10
Medical-only injuries (no lost time or light duty)	4
Medical injuries resulting in "light duty" restrictions	3
Lost-time injuries	5

   The OSHA Incidence Rate for recordable cases is most nearly:

   (A) 1.33
   (B) 2.13
   (C) 3.20
   (D) 5.86

3. An airflow of 15,000 cfm at 95°F db/77°F wb is cooled to 53°F saturated with a cooling coil. The volumetric flow (gpm) of moisture removed from the air is most nearly:

   (A) 0.9
   (B) 7.6
   (C) 8.2
   (D) 110.0

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