

Carleton University

Department of Civil and Environmental Engineering

Engineering CIVE 3208 Geotechnical Mechanics

October 2008

Test 1

Time: 1 hour 20 minutes

Answer all three questions.

[MARKS]

Question 1

[25] Given the sieve analysis and plasticity data for the following two inorganic soils:

Sieve Size	Opening mm	Soil 1, % Finer	Soil 2, % Finer
No. 4	4.75	100.0	97
No. 10	2.00	93.2	90
No. 40	0.425	81.0	40
No. 100	0.15	69.0	8
No. 200	0.075	60.2	4
LL		42	-
PL		24	-
PI			NP*

* Nonplastic.

classify the two soils according to the Unified Soil Classification System.

4% < 0.075