

**I. SOIL PROPERTIES**

1. **Parent material** (5 points)
 

A Weathered bedrock	E Loess
B Till	AB Alluvium
C Outwash/lacust. deposit	AC Local overwash
D Eolian sand	
2. **Slope** (5 points)
 

A 0-2%	E 19-25%
B 3-6%	AB 26-35%
C 7-12%	AC >35%
D 13-18%	
3. **Landform** (5 points)
 

A Upland hillslope	AB Outwash landfm., hillslope
B Upland swell	AC Outwash landfm., swell
C Upland depr./flat	AD Outwash landfm., depr./flat
D Dune	AE Flood plain
E Filled depression	
4. **Color, surface** (5 points)
  - A Dark
  - B Gray
  - C Brownish
5. **Erosion** (5 points)
  - A None to slight
  - B Moderate
  - C Severe
6. **Texture, surface** (5 points)
  - A Sandy (S, LS)
  - B Moderately sandy (SL)
  - C Medium (L, SiL, Si)
  - D Moderately clayey (SCL, CL, SiCL)
  - E Clayey (SC, C, SiC)

S = Sand(y), Si = Silt(y), C = Clay, L = Loam(y)
7. **Texture, subsoil** (5 points)
  - A Sandy (S, LS)
  - B Moderately sandy (SL)
  - C Medium (L, SiL, Si)
  - D Moderately clayey (SCL, CL, SiCL)
  - E Clayey (SC, C, SiC)
8. **Natural soil drainage** (5 points)
  - A Poorly
  - B Somewhat poorly
  - C Moderately well
  - D Well
9. **Limiting layer** (5 points)
  - A Bedrock, 0-20 in.
  - B Bedrock, 21-40 in.
  - C Dense till, 0-20 in.
  - D Dense till, 21-40 in.
  - E Fragipan, 0-20 in.
  - AB Fragipan, 21-40 in.
  - AC Coarse sand & gravel, 0-20 in.
  - AD Coarse sand & gravel, 21-40 in.
  - AE None within 40 in.

Contestant No. \_\_\_\_\_

Site No. \_\_\_\_\_

Soil series \_\_\_\_\_

**II. HOMESITE PRACTICES** (3 points each)

**A. General homesite practices**

*Areas subject to flooding and ponding are not suitable for homesites. Mark all YES-NO practices NO, and do not answer questions (58 - 61 and 69) if the landform is a floodplain or a filled depression.*

**YES NO**

Homesite construction practices

- 51. A B Maintain soil cover during construction
- 52. A B Improve surface drainage
- 53. A B Improve surface soil
- 54. A B Locate home to fit soil restrictions
- 55. A B Provide foundation drainage
- 56. A B Accommodate high-clay subsoils
- 57. A B Install diversion structures and drains

Landscape and lawn practices

58. Acid loving plants: A No adj; B Acidify; C Oth spes

For lawns:

- 59. pH adjustment: A Lime; B No adj.; C Acidify
- 60. Phosphorus: A Apply; B Do not apply
- 61. Potassium: A Apply; B Do not apply

**B. On-site wastewater disposal practices**

*Soils with slope greater than 12% are not suitable for on-site wastewater disposal systems. If the slope is greater than 12%, then mark 62 - 68 NO, and do not answer 69.*

**YES NO**

Soil absorption fields

- 62. A B Trench system, ordinary size
- 63. A B Trench system, large size
- 64. A B At-grade system
- 65. A B Mound system
- 66. A B Drip distribution system

Secondary treatment systems

- 67. A B Sand filter
- 68. A B Constructed wetland

Septic tank pumping interval (years)

- |                  |   |   |   |   |   |   |
|------------------|---|---|---|---|---|---|
|                  | 1 | 2 | 3 | 4 | 5 | 6 |
| 69. A B C D E AB |   |   |   |   |   |   |

**Score**

Part I, 1-9 (45 pts. possible) \_\_\_\_\_

Part II, 51-69 (57 pts. possible) \_\_\_\_\_

Total (102 pts. possible) \_\_\_\_\_