

Earth System Science 5 / Quiz #1 (April 12, 2007)

Name \_\_\_\_\_ Student ID \_\_\_\_\_

\_\_\_\_\_ (1) Of the following planets, which has the largest greenhouse effect in its atmosphere?

- A) Earth    B) Venus    C) Mars

\_\_\_\_\_ (2) The four layers of the atmosphere from the top down are:

- A) thermosphere, mesosphere, stratosphere, troposphere.  
B) stratosphere, mesosphere, thermosphere, troposphere.  
C) thermosphere, stratosphere, mesosphere, troposphere.  
D) troposphere, stratosphere, mesosphere, thermosphere.

\_\_\_\_\_ (3) A “greenhouse” works because:

- A) all greenhouses face south and into the maximum angle of solar energy.  
B) of the difference in the solar constant.  
C) the windows of the greenhouse only allow green light wavelengths to pass through.  
D) short wave lengths of energy pass through the glass but longer ones can't.

\_\_\_\_\_ (4) Albedo:

- A) is high for sand and dirt.  
B) is high for ice, snow and thick clouds.  
C) is high for water.  
D) varies with latitude and not the various surfaces.  
E) is the same for all geographic features.