

Name: SAMPLE

Number: _____

GEOGRAPHY 4331 - MID-TERM (33% of course grade)

A. Complete the following statements: (1 point each) [5 minutes]

1. In a cloudless sky, incoming solar radiation _____ with altitude.
2. Infrared radiation flux is maximum at _____ μm wavelength.
3. Atmospheric pressure at 3 km altitude is about _____ % of its sea level value.
4. The diurnal temperature range on mountains _____ with latitude.
5. Summit temperatures are generally _____ than temperatures in the free air.
6. For stable conditions, westerly airflow towards a north-south mountain range is deflected _____ (in the N. Hemisphere).

B. Define the following terms: (2 points each) [10 minutes]

1. Optical air mass
2. Solar constant
3. Temperature inversion
4. Environmental lapse rate
5. Mass-elevation ("Massenerhebung") effect

