

NAME:

1. **Reading Material:** on the school website, on our class homework page, find and review **Lecture 15 “Atmosphere Part 2”**.

2. **What layer** of the Earth’s atmosphere:
 - a. is the coldest?
 - b. has *almost* no weather?
 - c. is the heaviest?
 - d. loses atoms and molecules into space?
 - e. has commercial planes flying in it?
 - f. contains the ozone layer?
 - g. is home to International Space Station?
 - h. is completely free of water vapor?
 - i. hosts auroras (aka Northern lights)?
 - j. is home to life?

3. The mean (average) **rate of temperature decrease with altitude in the troposphere is $6.5^{\circ}\text{C per km}$** (this means that with every 1 km up the air temperature becomes 6.5°C less, i.e. it’s getting colder up there). **What is the temperature at the *top* of Mt. Everest if the surface (and hence the air) temperature at its *base* is 25°C ?**