EARTH SCIENCE 2019/2020 **HOMEWORK #20**

NAME:

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1. **Reading Material:** on the school website, on our class homework page, find and study **"Atmosphere Layers"**.

2. Based on the above reading, **which 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 the 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) <u>rate of temperature decrease with altitude</u> in the troposphere is <u>6.5°C per km</u> (**this means that with every 1 km up the air temperature becomes 6.5°C less, i.e. it' getting colder and 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?** (hint: refer to slide #2 from Lecture#11 and be careful😊)