Name REVIEW ON ATMOSPHERIC SCIENCES A. Matching-match the best definition to the following words. <u>d</u>evaporation at. thick, fleecy, puff balls <u>k</u> conduction b. thin, feathery b cirrus ø. low sheets or layers hail d. liquid to vapour convection e. vapor to liquid a cumulus f. solid to gas <u>e</u> condensation g. travels as short and long waves through space K sleet h. heat transfer by contact **C** stratus X. heat transfer by circulation g radiation j. layered like an onion k. frozen rain B. Short Answer 1. a) Draw a detailed diagram of the atmosphere's temperature layers. See notes b) List the gases (and their percentages) found in the homosphere. N 78%, O 21%, Ar 41%, CO, 0.03%, other c) What is the basis for the temperature layer divisions? the way T changes in the layer 2. a) Explain how the ionosphere is formed. b) What do we use the ionosphere for? bouncing radio usives to other places on a 3. What does the ozone layer do? protect from absorb UV (ayo (15-50 km up) 4. Explain the greenhouse effect in detail. short waves from sun absorbed into ground, emitted as long waves, trapped by HzO wyour RCO, 5. warm air--> air pressure dry air--> high air pressure Explain why one of the above statements is true. 6. a) Wind moves from high to 1000 pressure b) What is an isobar? line connecting puts of aqual pressure

c) A steep pressure gradient--> strong winds.

(130bars close to).)

not. & D on axis

wirds to veen

7. Explain what causes the coriolis effect and what it causes.

8. If we had a non-rotating, land-free earth, what would the wind patterns look like?

9. Which direction do cyclones rotate in the N. Hemisphere? S. Hemisphere?

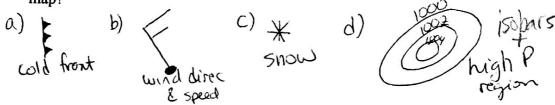
Anticyclones in the N. Hemisphere? S. Hemisphere?

10. Briefly describe and sketch the hydrologic cycle (pg. 122).

11. What is an air mass? Give/describe 2 examples. Lott manifine, continental, an area of the troposphere had host to same weather polar, tropical

12. What is a front? What are the 3 kinds? Describe a cold front; a warm front.
division between air masses, wild, warm, stationary thindustries circuit stope gentle stope

13. What does each of the following symbols mean when found on a weather map?



e)

f)

claud type

stationary

circus

stratus

h)

cuann from

stratus

14. a) What are the differences between hurricanes and tornadoes?

b) What are 4 other names a hurricane is known as? willie willie, bagious, cyclone, typhoon

So which way do they rotate in the northern hemisphere? southern hemisphere?

15. Define climate. Describe 3 of the main climate controls. - preximity to oceans, average weather of a region - topography

16. Explain how to determine how far away a thunderstorm is.

17. Identify the 3 cloud pictures being passed around.

Stratus, cumulus, circus

83 ilb

N Hem

alt hade

prevailing winds