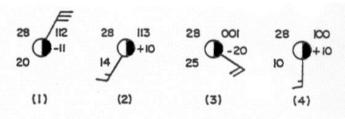
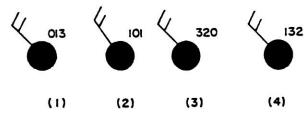
Station Models Review

1. Which weather station model indicates the greatest probability of precipitation?



2. A weather station records a barometric pressure of 1010.1mb. Which diagram below would best represent this weather station on a weather map?



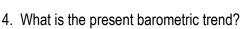
Questions 3-5 – Use the station model to the right.

- 3. What is the relative humidity at this station?
 - (1) 18%

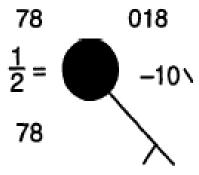
(3) 10%

(2) 78%

(4) 100%

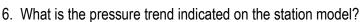


- (1) a 10mb rise in the past 3 hours
- (2) a 10mb drop in the past 3 hours
- (3) a 1.0mb rise in the past 3 hours
- (4) a 1.0mb drop in the past 3 hours



- 5. What is the wind speed and direction recorded at the station?
 - (1) southeast winds at 10 knots
 - (2) southwest winds at 10 knots
 - (3) southeast winds at 5 knots
 - (4) southwest winds at 10 knots

The station model to the right represents atmospheric conditions at a location in New York at noon on a day in January.

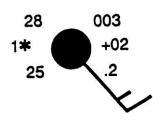


1 rising

3 steady

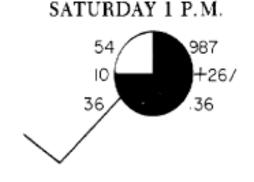
2 falling

4 steady, then falling



Base your answers to questions 7-8 on the diagram to the right which represents a weather station model for a given location.

- 7. What is the approximate wind speed at this station in knots?
 - 1 1 knots
- 3 5 knots
- 2 10 knots
- 4 13 knots
- 8. What was the barometric pressure in millibars at this station?
 - 1 987.0 mb
- 3 1,098.7 mb
- 2 998.7 mb
- 4 1078.9 mb



016

Base your answers to questions 9-10 on the *Earth Science Reference Tables* and the diagrams below of the weather station model.

- 9. What is the air pressure in the area represented by this station model?
 - (1) 169 mb

(3) 1001.6 mb

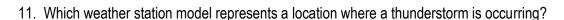
(2) 901.6 mb

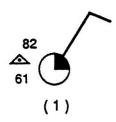
- (4) 1016.0 mb
- 10. The wind at this station was from the
 - (1) northeast

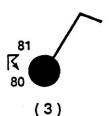
(3) north

(2) south

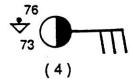
(4) northwest



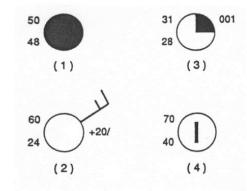




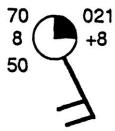




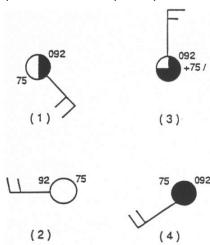
12. Which weather station model best represents the location with the greatest probability of precipitation?



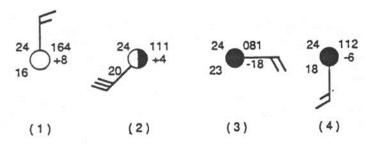
- 13. The relative humidity at this station can best be described as
 - (1) low with a slim chance of precipitation
 - (2) high with a slim chance of precipitation
 - (3) low with a high probability of precipitation
 - (3) high with a high probability of precipitation



14. Which station model represents an atmospheric pressure of 1009.2 mb and a temperature of 75°F?



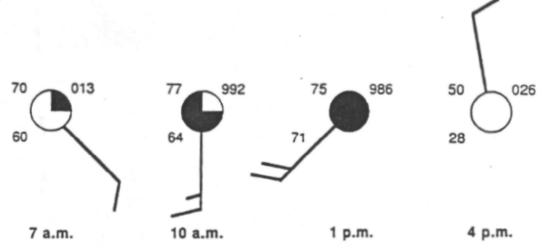
15. Which weather station model indicates overcast skies and the greatest drop in pressure in the last 3 hours?



Base your answers to guestions 16-20 on the Earth Science Reference Tables and the diagrams below.

The diagrams represent station models showing weather data collected at four different times during 1

day at a location in New York State.



16. At which time of day was the greatest wind velocity recorded?

1 1 p.m. 2 10 a.m. 4 4 p.m.

17. What was the barometric pressure at 4.p.m?

1 26.0 mb 1002.6 mb 2 260 mb 1026.0 mb

18. At what time was the probability of precipitation the greatest at this location?

3 7 a.m. 1 1 p.m. 2 10 a.m. 4 4 p.m.

19. The lowest relative humidity was recorded at

1 1 p.m. 3 7 a.m. 2 10 a.m. 4 4 p.m.

20. Which station model best represents the probable weather conditions at 7 p.m.

if the present trend continues?

