

Re: Metro Practice Figures \_\_ 20170207

# ME METEOROLOGY PRACTICE TEST

1. A mTw air mass has the greatest potential for producing what type of weather?
  - A. Cumuliform clouds and good visibility.
  - B. Stratiform clouds and turbulence.
  - C. Stratiform clouds and steady rain.
  - D. Cumuliform clouds and fog.
  
2. Use the Area Forecast (figure F-6) provided. Select the true statement concerning clouds over the southern portion of Georgia.
  - A. Forecast ceilings are 2000'-2500'
  - B. No forecast ceiling/s is/are indicated
  - C. The forecast ceiling is 10000'
  - D. The forecast ceiling is 1000'
  
3. A pilot flying through an occluded front would encounter weather best described as...
  - A. warm frontal
  - B. a combination of cold and warm frontal weather
  - C. like that of a stationary front
  - D. similar to cold front weather
  
4. A squall line is...
  - A. a wide spread area of continuous precipitation and nimbostratus clouds
  - B. best characterized as an upper level low pressure trough
  - C. normally associated with warm, moist, unstable air masses
  - D. the boundary between dissimilar air masses
  
5. Use the Low Level Significant Weather Prognostic Chart (figure F-9) provided. What type of precipitation is expected near northern Idaho between 0600Z and 0900Z on 19 FEB?
  - A. Rain showers
  - B. Steady snow
  - C. Steady rain
  - D. None
  
6. Use the METAR report to answer the following question.  
KDFW 1857Z 15005KT 1SM R02/6000FT RA FG BKN000 BKN005 OVC012 10/M01 A2985  
RMK VIS1V3 GIG004V006 BKN000 FG SLP122 WR//  
What was the reported prevailing visibility and restriction/s to visibility?
  - A. 1 mile in rain and fog
  - B. 2 miles in rain and fog
  - C. 6000' in rain and fog
  - D. 3 miles in rain and fog

7. ADW UA/OV BRV 045025 /TM 0920 / FL080 /TP T37 /SK 040 OVC TOP UNK /TB LGT  
Select from the above PIREP the true statement from the following.

- A. Light thunderstorms were reported
- B. The base of the overcast was reported above 4000 feet AGL
- C. the report was made from NE of ADW
- D. The aircraft altitude is 8000 feet MSL

8. Who has the ultimate responsibility for the weather briefing?

- A. Pilot in Command
- B. Weather Briefer
- C. Commanding Officer
- D. Pilot receiving the brief

9. Which one of the following would depict a severe weather watch box (WW)?

- A. Surface Prognostic Chart
- B. Aviation Routine Weather Report
- C. Radar Summary Chart
- D. Weather Depiction Chart

10. Use the RADAR SUMMARY CHART (figure F-11) provided. What type of precipitation was over Arkansas if any?

- A. Thundershowers
- B. Rain showers
- C. Rain
- D. There was no echoes (NE) detected in that location

11. Which of the following would be the best source of information regarding areas reporting MVFR? conditions?

- A. Surface Analysis Chart
- B. Radar Summary Chart
- C. Surface Prognostic Chart
- D. Weather Depiction Chart

12. A finger shaped echo pattern on airborne weather radar indicates the possible presence of a...

- A. hail shaft
- B. rapidly developing thunderstorm
- C. radar malfunction
- D. tornado

13. Variations in color on an infrared (IR) Satellite Picture would be indicative of...

- A. malfunctioning sensors
- B. Cloud height due to difference in temperature
- C. gray mode oscillations
- D. cloud shadowing

14. FOR THE FOLLOWING QUESTION, DECODE THE FORECAST ELEMENTS FROM THE TERMINAL AERODROME FORECAST (TAF) USING AN ETA OF 0930Z. FOR FLIGHT PLANNING PURPOSES, ASSUME A "WORST CASE" SCENARIO. (FOR THIS PURPOSE, HIGHEST WINDS AND LOWEST ALTIMETER)

KNGP 3009/3109 13008KT 9999 BKN025 BKN150 OVC250 651505 511003 QNH3025INS  
BECMG 3009/3010 VRB03KT 2400 BR BKN005 OVC018 QNH3021INS  
BECMG 3010/3011 00000KT 0800 FG OVC005 QNH3020INS  
BECMG 3014/3015 12007KT 9000 HZ BKN015 OVC025 QNH3023INS  
FM 301700 14012G20KT 9999 SCT025TCU BKN250 561003 QNH3018INS  
VC RASH  
TEMPO 3019/3023 13015G25KT 1600 TSHRA BKN000 OVC015CB BKN 250  
BECMG 3101/3103 12010KT 9999 SCT025 SCT250 QNH3024  
Altimeter...

- A. 30.20 INS
- B. 30.18 INS
- C. 30.21 INS
- D. 30.25 INS

15. FOR THE FOLLOWING QUESTION, DECODE THE FORECAST ELEMENTS FROM THE TERMINAL AERODROME FORECAST (TAF) USING AN ETA OF 1030Z. FOR FLIGHT PLANNING PURPOSES, ASSUME A "WORST CASE" SCENARIO. (FOR THIS PURPOSE, HIGHEST WINDS AND LOWEST ALTIMETER)

KNGP 3009/3109 13008KT 9999 BKN025 BKN150 OVC250 651505 511003 QNH3025INS  
BECMG 3009/3010 VRB03KT 2400 BR BKN005 OVC018 QNH3021INS  
BECMG 3010/3011 00000KT 0800 FG OVC005 QNH3020INS  
BECMG 3014/3015 12007KT 9000 HZ BKN015 OVC025 QNH3023INS  
FM 301700 14012G20KT 9999 SCT025TCU BKN250 561003 QNH3018INS  
VC RASH  
TEMPO 3019/3023 13015G25KT 1600 TSHRA BKN000 OVC015CB BKN 250  
BECMG 3101/3103 12010KT 9999 SCT025 SCT250 QNH3024  
Winds...

- |  |
|--|
| <ul style="list-style-type: none"><li>A. Light and variable (3 KTS)</li><li>B. 120 true / 07 KTS</li><li>C. 140 true / 12 KTS, gusting 20 KTS</li><li>D. 130 true / 08 KTS</li></ul> |
|--|

16. An aviation hazard associated with structural icing is that it results in

- A. a reduction of lift by changing the airfoil characteristics.
- B. an increase in airspeed.
- C. a decrease in drag.
- D. both a and c are correct

17. The best method of dealing with the potential hazards associated with thunderstorms is....

- A. go over it
- B. fly through the saddleback
- C. fly two-thirds the distance between the cloud top and base
- D. go around it, trying to stay at least 20 miles away

18. What type of precipitation would likely result in clear ice?

- A. Snow showers
- B. Mist
- C. Freezing rain
- D. Fog

19. Which type of AIRMET would be issued for mountain obscuration?

- A. Tango
- B. Sierra
- C. Zulu
- D. Alpha

20. If you miss your takeoff time by more than 30 minutes past your ETD. You must...

- A. Get an extension.
- B. Get the weather rebriefed.
- C. Cancel the mission.
- D. A or B are correct

21. Use the Weather Depiction Chart (figure F-10) provided. What were the sky/visibility conditions over most of Nebraska?

- A. IFR
- B. 1000'-3000' ceilings and/or 3-5 miles visibility
- C. LIFR
- D. Greater than 3000' ceilings and 5 miles visibility

22. Using the Surface Analysis Chart (figure F-8) provided. What major weather feature would be affecting enroute weather for flight in South Carolina?

- A. An occluded front
- B. A cold front
- C. A stationary front
- D. A warm front

23. Non-convective SIGMETs are transmitted...

- A. as required
- B. 8 times daily
- C. four times daily
- D. two times daily

24. AIRMETS are transmitted...

- A. as required
- B. 8 times daily
- C. four times daily
- D. two times daily

25. Severe Weather Watch bulletins are issued for...

- A. Severe Thunderstorms
- B. Tornadoes
- C. Squall lines
- D. A and/or B above



