

Meteorology

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There are 20 questions in this examination.
Only one answer is correct. The pass mark is 75%.
You would normally be allowed 60 minutes.

- How would a visibility of 12km be expressed in a TAF?
 - 12000
 - 12KM
 - 12K
 - 9999
- The tropopause describes the:
 - layer of the atmosphere closest to the earth
 - the boundary between the troposphere and the stratosphere
 - the layer of the atmosphere furthest from the earth
 - point at which the temperature is a steady -56.7 degrees Fahrenheit
- In a METAR, what does RETS signify?
 - Reticular Stratus (indicating mountain wave activity)
 - Reasonable chance of thunderstorms
 - Recent turbulence (severe category)
 - Recent thunderstorms
- Rime and/or clear icing is most likely to occur when:
 - aircraft surfaces are below freezing and rain or drizzle is encountered
 - flying out of a warm front with associated rain towards colder air
 - flying from a cold area into a warmer moist air mass
 - descending out of cloud into cold air
- An elongated area of high pressure is commonly known as a:
 - col
 - trough
 - ridge
 - front
- What does the following meteorological symbol (drawn from a Significant Weather chart) indicate?

 - Fog
 - Freezing fog
 - Moderate turbulence
 - Moderate icing
- What is 204 degrees Fahrenheit, expressed using the Celsius scale?
 - 252 degrees Celsius
 - 131 degrees Celsius
 - 96 degrees Celsius
 - 91 degrees Celsius
- What is an AIRMET?
 - A set of meteorological observations for a specific area
 - A meteorological forecast for a specific area
 - A report of weather conditions transmitted to airborne pilots
 - A report of weather conditions submitted by airborne pilots
- In a SIGMET the weather phenomena is described as INTSF. What does this mean?
 - It is intensifying
 - It is crossing international flight regions
 - It is affecting aircraft on short final at an interior (i.e. UK) aerodrome
 - It is in the southern FIR (i.e. the London FIR)
- If the environmental lapse rate is 4.4 degrees Celsius per 1000 ft, the air mass is said to be:
 - stable
 - conditionally stable
 - neutrally stable
 - unstable
- Katabatic winds are typically _____ anabatic winds. What are the missing words?
 - stronger than
 - 30% of the strength of
 - 70% of the strength of
 - the same strength as
- The earth temperature is usually at a minimum:
 - just after sunrise
 - mid morning
 - at midnight
 - at around 3 am (local) time
- What weather conditions would you expect to find in the south east sector of area B in this extract taken from a UK Metform 215 (F215)?

 - FEW / SCT cumulus cloud, light winds, moderate visibility
 - BKN / OVC stratus cloud, light winds, moderate visibility
 - BKN / OVC stratiform cloud, moderate to strong winds, poor visibility
 - Low cloud, mist and drizzle, light winds, moderate visibility

- What are the hazards to aviators caused by thunderstorms?
 - Loss of control due to severe windshear
 - Damage from hail and lightning strikes, interference with radio equipment
 - Structural damage in severe turbulence
 - All of the above
- Immediately after the passing of the warm front, the temperature will:
 - drop
 - rise
 - drop sharply
 - stay constant
- Which of the following conditions are suitable for the formation of radiation fog?
 - Clear night, moist air, strong winds
 - Cloudy night, moist air, light winds
 - Clear night, moist air, light winds
 - Cloudy night, very moist air, moderate winds
- What can you infer from the temperature / dew point values in this METAR? EGJG 121630Z 09012KT 9999 SCT006 15/14 Q1015
 - The temperature / dew point spread is low, so the risk of cloud forming is high especially if the temperature falls
 - The temperature / dew point spread is high, so the risk of cloud forming is low
 - The temperature / dew point spread is low, so the risk of cloud forming is low unless the temperature drops significantly
 - The temperature is higher than the dew point so cloud will not form
- When an air mass is saturated, its relative humidity will be:
 - 0%
 - 33%
 - 50%
 - 100%

19 Study the picture below, showing the occasional cloud below you. If the cloud base is 3200ft agl, and covering approximately 15-20% of the sky, how would this be described in an aerodrome observation?



- FEW32
 - SCT032
 - SCT320
 - FEW032
- What do rotor areas in the lee of high terrain signify?
 - Light winds and good flying conditions
 - Moderate to severe turbulence
 - The lack of mountain wave activity
 - Good visibility within the rotor area

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