

Meteorology

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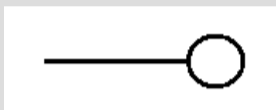
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There are 20 questions in this examination.
Only one answer is correct. The pass mark is 75%.
You would normally be allowed 60 minutes.

- 1 A line on a meteorological chart joining areas of equal wind speed is known as an:
 - A isobar
 - B isotach
 - C isospeed
 - D isovitesse
- 2 A UK Metform 215 (F215) will have a validity period of:
 - A 3 hours
 - B 6 hours
 - C 9 hours
 - D 12 hours
- 3 Which of the following conditions are suitable for the formation of radiation fog?
 - A Clear night, moist air, strong winds
 - B Cloudy night, moist air, light winds
 - C Clear night, moist air, light winds
 - D Cloudy night, very moist air, moderate winds
- 4 What sort of weather would you associate a tropical continental air mass with?
 - A Hot and dry conditions with the possibility of haze in summer
 - B Rain and cloud, snow in winter
 - C Warm and wet conditions
 - D Drizzle and high humidity
- 5 The speed of advance of a cold front is:
 - A faster than a warm front
 - B slower than a warm front
 - C the same as a warm front
 - D significantly slower than a warm front

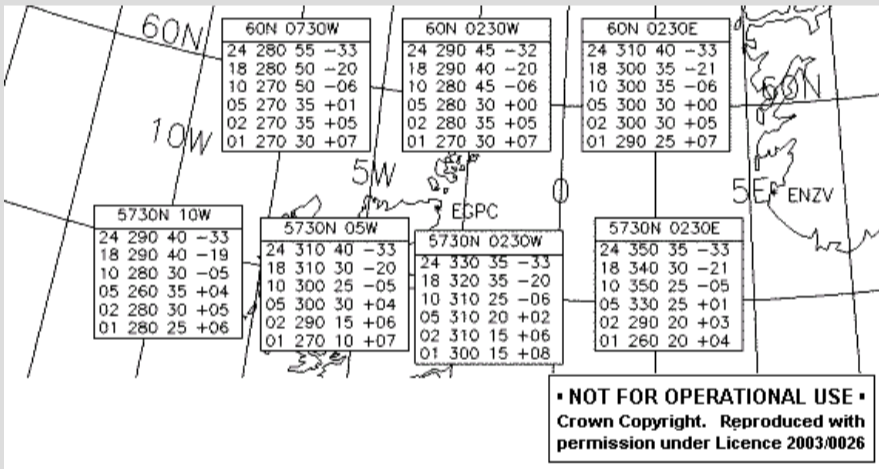
- 6 What wind speed is indicated by the following symbol, drawn from a meteorological chart?



- A Zero kts
 - B 1-2 kts
 - C Less than 5 kts
 - D Variable speeds
- 7 How are cumulus clouds with marked vertical development identified in a METAR?
 - A +TCU
 - B +CU
 - C TCU
 - D +>CU
 - 8 During a climb, your static vent ices over completely. What effect will this have on your altimeter?
 - A It will show a continual and gradual descent
 - B It will show a continuing climb, even when you level out
 - C it will give the appearance of level flight at that altitude
 - D It will show fluctuations and the indicator needle will become unsteady
 - 9 In which stage of the life cycle of a thunderstorm would you expect to find strong warm updrafts, with no significant downdrafts?
 - A The Incipient Stage
 - B The Mature Stage
 - C The Dissipating Stage
 - D The Cumulus Stage

- 10 Which of the following METARs is reporting fog banks at Exeter?
 - A EGTE 210820Z 00000KT 0900 BKFG FEW002 BKN050 03/03 Q1034
 - B EGTE 210820Z 12005KT 3000 FG FEW005 BKN030 08/03 Q1032
 - C EGTE 210820Z 00000KT 0900 BCFG FEW002 BKN050 03/03 Q1031
 - D EGTE 210820Z 00000KT 0900 PRFG FEW003 BKN050 03/03 Q1031

- 11 Study the extract, taken from a Form 214. What would you expect the wind speed and direction to be at 2000 ft in a position 60N 05W?



- A 270 at 35 kts
 - B 280 at 35 kts
 - C 275 at 35 kts
 - D 275 at 30 kts
- 12 What weather conditions would you expect if the TAF included the abbreviation RASN?
 - A Drizzle and mist
 - B Good conditions (Relative Atmosphere Stability Normal)
 - C Rain and Stratonimbus
 - D Rain and snow mixed (sleet)
 - 13 What is 10 degrees Celsius, expressed using the Fahrenheit scale?
 - A 38 degrees Fahrenheit
 - B 44 degrees Fahrenheit
 - C 50 degrees Fahrenheit
 - D 65 degrees Fahrenheit
 - 14 Lines that join areas of equal pressure on a meteorology chart are known as:
 - A isotherms
 - B isobars
 - C isogonals
 - D isotachs
 - 15 The ISA (International Standard Atmosphere) assumes an environmental lapse rate of:
 - A 1.5 degrees Celsius for every 1000 ft
 - B approximately 2 degrees Celsius for every 1000 ft
 - C 3.0 degrees Celsius for every 1000 ft
 - D 5 degrees Celsius for every 1000 ft
 - 16 There has been an anticyclone established for nearly a week, with the centre of high pressure established over your aerodrome. What would you expect the flying conditions to be like?
 - A Strong winds and good visibility
 - B Light winds and a risk of haze
 - C Rain and showery conditions, excellent visibility
 - D Moderate winds, good visibility becoming poor in showers
 - 17 When water turns from a vapour into a liquid, it is said to have:
 - A condensed
 - B sublimed
 - C deposited
 - D evaporated
 - 18 Cirrus cloud has an approximate cloud base of:
 - A 1000 ft
 - B 2000 ft
 - C 8000 ft
 - D 20000 ft
 - 19 The first layer of the atmosphere, closest to the earth is called the:
 - A troposphere
 - B tropopause
 - C ionosphere
 - D mesosphere
 - 20 A special forecast can be requested for flights up to 500 nautical miles in distance. How much notice are you required to give for this?
 - A At least 30 minutes
 - B At least 60 minutes
 - C At least 90 minutes
 - D At least 120 minutes

A marking sheet has been sent to jon@jdyorke.com
If you find an error, please email us at feedback@airquiz.com

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