

Exam simulation

Quiz BPL Hot Air - Balloon Pilot License - Meteorology



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STUDENT NAME:

DATE AND TIME:

01. What does a readability of 1 indicate?

- a) The transmission is perfectly readable
- b) The transmission is readable now and then
- c) The transmission is readable but with difficulty
- d) The transmission is unreadable

02. What wind conditions should be expected in the vicinity of showers or thunderstorms?

- a) Steady wind from direction of shower.
- b) Steady wind into direction of shower.
- c) Strong gust from variable directions
- d) Calm winds during passage of a shower.

03. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?

- a) Roger
- b) Squawk 4321, wilco
- c) Squawk 4321, 131.325
- d) Wilco

04. At high altitude, the complete heating system of a hot-air balloon fails. What maximum rate of descent has to be expected upon reaching ground?

- a) Approximatley 2.5 m/s
- b) Approximatley 4.5 m/s
- c) Approximatley 6.5 m/s
- d) Approximatley 2.5 m/s

05. What has to be considered before a balloon ride across water surfaces?

- a) Continuous radio communication has to be established with air traffice control
- b) A transponder has to be installed and carried aboard
- c) A flight plan with detailed routing has to be filed.
- d) For all people inside the basket life jackets have to be carried aboard

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06. During buildup of a hot-air balloon, who has to be equipped with tight, flame resistant gloves and clothing covering all body parts?

- a) Only the balloon pilot
- b) Balloon pilot, buildup team and spectators
- c) Only the buildup team
- d) The balloon pilot and the buildup team

07. Heavy downdrafts and strong wind shear close to the ground can be expected...

- a) During approach to an airfield at the coast with a strong sea breeze.
- b) During cold, clear nights with the formation of radiation fog
- c) During warm summer days with high, flattened Cu clouds.
- d) Near the rainfall areas of heavy showers or thunderstorms.

08. At time of take-off, ground wind speed is 3 m/s. Along take-off flight path, at a distance of 360 m obstacles erect up to 40 m. What is the minimum rate of climb to keep a clearance of 50 m above the obstacles? (Consider double the ground wind speed for the flight path)

- a) 1 m/s
- b) 2 m/s
- c) 0.5 m/s
- d) 1.5 m/s

09. During a flight in an air mass with a temperature equal to ISA and the QNH set correctly, the indicated altitude is...

- a) Equal to the standard atmosphere.
- b) Lower than the true altitude.
- c) Equal to the true altitude.
- d) Higher than the true altitude.

10. What statement is correct with regard to the density of a gas?

- a) The density increases with increasing temperature and constant volume.
- b) The density decreases with decreasing volume and constant temperature.
- c) The density decreases with increasing temperature and constant volume.
- d) The density decreases with increasing temperature and constant pressure.

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11. The parapet height of a hot-air balloon basket is at least:

- a) 100 cm, in commercial operation 110 cm
- b) 80 cm, in commercial operation 100 cm
- c) 120 cm, in commercial operation 130 cm
- d) 110 cm, in commercial operation 110 cm

12. At which conditions does the arm blower have the highest efficiency?

- a) With as small distance to the balloon opening as possible.
- b) By evenly swiveling for better air spreading.
- c) By completely filling the balloon opening with the air beam.
- d) By placing the blower inside the hull.

13. Which phrase does a pilot use when he / she wants to check the readability of his / her transmission?

- a) What is the communication like?
- b) You read me five
- c) How do you read?
- d) Request readability

14. The ratio between air pressures at different heights is referred to as:

- a) Pressure number
- b) Height value
- c) Height ratio
- d) Height number

15. The main blast valve is located where?

- a) At the main cylinder
- b) At the burner
- c) At the hull equator
- d) At the upper hull part

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16. Given the following masses: Empty mass 260 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg Assuming ISA temperatures, how many persons may be carried in the basket at maximum, if the balloon with 4 gas containers has to climb up to pressure altitude 9.000 ft ? (use attachment ECQB-PPL_BPL001) Siehe Anlage 1

Auszug aus dem Flughandbuch



- a) 4
- b) 5
- c) 2
- d) 3

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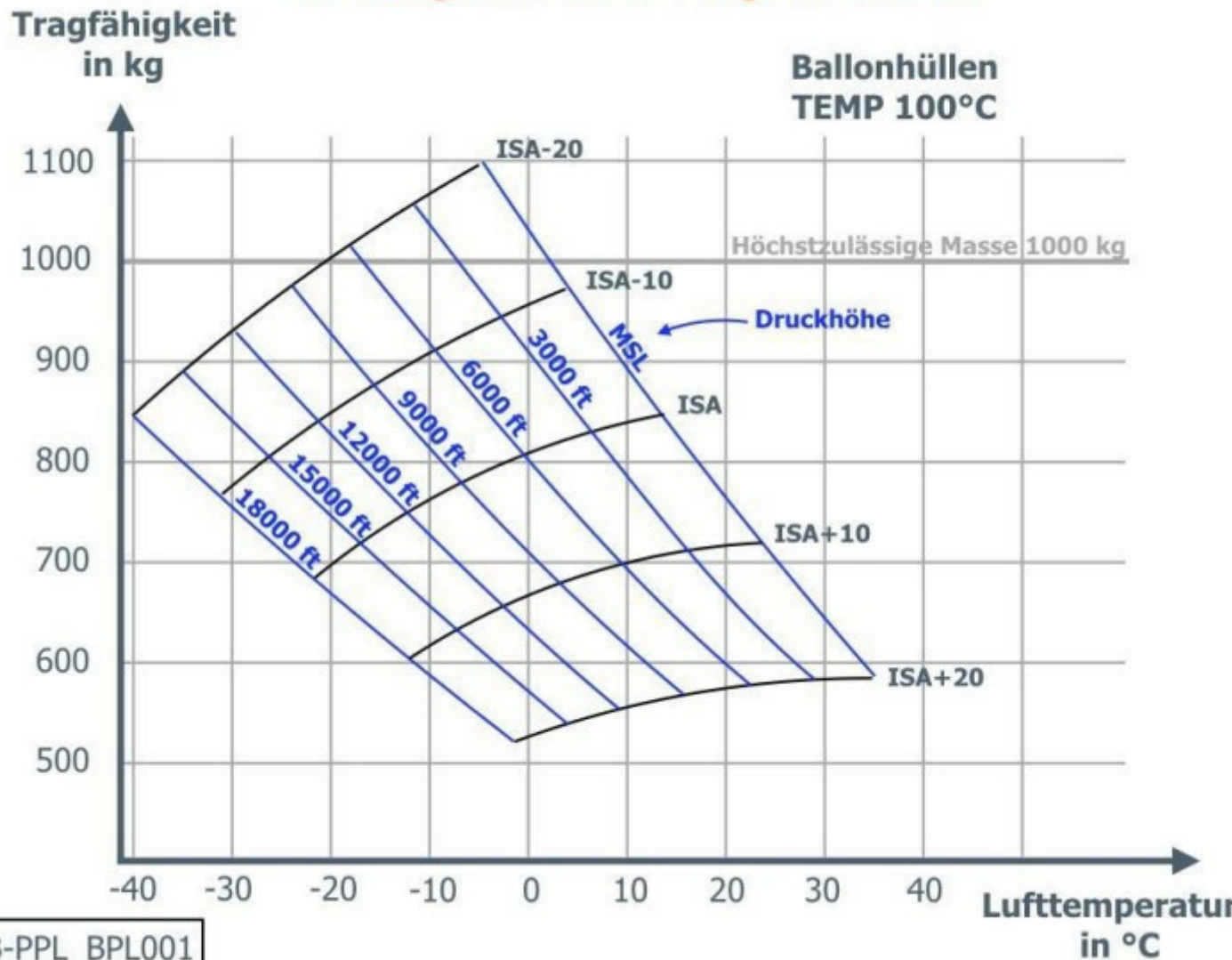
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17. Given the following masses: Empty mass 260 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg Assuming temperature ISA+10, how many persons may be carried in the basket at maximum, if the balloon with 4 gas containers has to climb up to pressure altitude 12.000 ft ? (use attachment ECQB-PPL_BPL001) Siehe Anlage 1

Auszug aus dem Flughandbuch



- a) 3
- b) 5
- c) 4
- d) 2

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18. The burning gas is pushed from the liquid gas phase through the riser tube to which component?

- a) To the evaporator
- b) To the pressure relief device
- c) To the fill level indicator
- d) To the controller

19. Which validity does the "Certificate of Airworthiness" have?

- a) 12 years
- b) 12 months
- c) Unlimited
- d) 6 months

20. What weather conditions can be expected in high pressure areas during winter?

- a) Squall lines and thunderstorms
- b) Changing weather with passing of frontal lines
- c) Calm winds and widespread areas with high fog
- d) Calm weather and cloud dissipation, few high Cu

21. What information is provided in the general part (GEN) of the AIP?

- a) What information is provided in the general part (GEN) of the AIP?
- b) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees
- c) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts, restricted and dangerous airspace
- d) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods

22. On summerdays with calm winds, the balloon pilot has to expect:

- a) With a cold air pool on the ground.
- b) With wind shear.
- c) With strongly heated surface layers.
- d) With a pronounced ground inversion

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23. Carbon monoxide poisoning can be caused by...

- a) Unhealthy food
- b) Alcohol.
- c) Smoking.
- d) Little sleep.

24. What has to be considered at moderate wind speeds during a balloon ride across mountainous area with cloud-free sky?

- a) Decreasing burner power.
- b) Altimeter indication too low.
- c) Icing conditions.
- d) Lee waves and severe up- and downdrafts

25. At which altitude is the atmospheric pressure approximately half the MSL value (1013 hPa)?

- a) 5000 ft
- b) 18000 ft
- c) 22000 ft
- d) 10000 ft

26. What effect has air temperature on the carrying force and on maximum take-off mass of a balloon?

- a) Maximum take-off mass is higher at low temperatures.
- b) Maximum take-off mass is lower at low temperatures.
- c) Carrying force is higher at low temperatures.
- d) Carrying force is lower at low temperatures.

27. During a balloon ride, visibility continuously becomes poorer, also cloud base decreases in direction of the current track. How should the balloon pilot react to this situation?

- a) Continue ride in remaining altitude
- b) Use GPS or radio navigation to continue ride in clouds
- c) Use next best chance for landing
- d) Break through the clouds and continue above clouds

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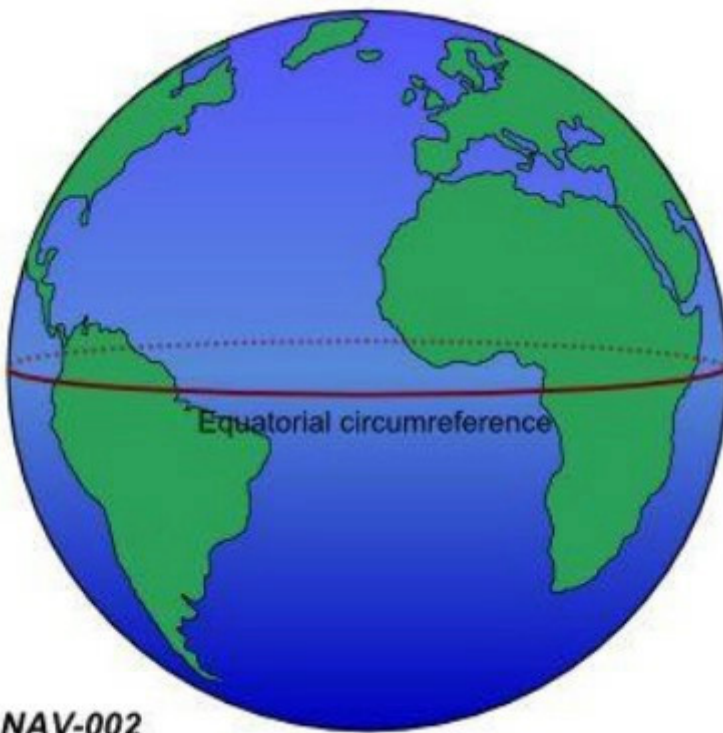
28. The ongoing process to monitor the current flight situation is called...

- a) Anticipatory check procedure.
- b) Situational thinking.
- c) Constant flight check.
- d) Situational awareness.

29. If heating is stopped and the parachute vent is not activated, a hot air-balloon reaches a final sinkrate of approximately:

- a) 6 m/s
- b) 2 m/s
- c) 10 m/s
- d) 20 m/s

30. The circumference of the Earth at the equator is approximately... See figure (NAV-002) Siehe Anlage 1



- a) 40000 NM.
- b) 12800 km.
- c) 10800 km.
- d) 21600 NM.

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31. Doubling the pressure of a dry gas at constant temperature results in a change of the volume to:

- a) Double the previous value.
- b) Half the previous value.
- c) Four times the previous value.
- d) A quarter of the previous value.

32. Which are the different parts of the Aeronautical Information Publication (AIP)?

- a) GEN ENR AD
- b) GEN MET RAC
- c) GEN COM MET
- d) GEN AGA COM

33. Changing the shape of the envelope of a free balloon, e.g. by a gust, results in:

- a) Increase in lift.
- b) Decrease in volume
- c) Increase of displaced air.
- d) Decrease in weight.

34. What does the abbreviation "HX" stand for?

- a) Sunrise to sunset
- b) 24 h service
- c) Sunset to sunrise
- d) No specific opening hours

35. In case of a water landing, when should the life jackets be inflated?

- a) After landing, still in the basket, if leaving the basket has to be expected.
- b) During cruise over water.
- c) After leaving the basket.
- d) Before touchdown on water surface.

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36. The maximum number of passengers can be found ...

- a) In the certificate of registration.
- b) In the operating handbook.
- c) In the Flight Log book.
- d) In the airworthiness certificate.

37. With Central European Time (CET) given as UTC+1, what UTC time corresponds to 1700 CET?

- a) 1600 UTC.
- b) 1800 UTC
- c) 1500 UTC.
- d) 1700 UTC.

38. How is an air mass described when moving to Central Europe via the Russian continent during winter?

- a) Continental polar air
- b) Continental tropical air
- c) Maritime tropical air
- d) Maritime polar air

39. What is the great circle distance between two points A and B on the equator when the difference between the two associated meridians is exactly one degree of longitude?

- a) 60 NM
- b) 216 NM
- c) 400 NM
- d) 120 NM

40. An inversion is a layer ...

- a) With increasing pressure with increasing height.
- b) With increasing temperature with increasing height
- c) With constant temperature with increasing height.
- d) With decreasing temperature with increasing height.

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41. What is meant by the term "terrestrial navigation"?

- a) Orientation by instrument readings during visual flight
- b) Orientation by ground features during visual flight
- c) Orientation by GPS during visual flight
- d) Orientation by ground celestial object during visual flight

42. What is the meaning of the abbreviation "AIREP"?

- a) What is the meaning of the abbreviation "AIREP"?
- b) Aircraft report
- c) Automatic identification report
- d) Aeronautical information report

43. At what rate does the temperature change with increasing height according to ISA (ICAO Standard Atmosphere) within the troposphere?

- a) Increases by 2° C / 1000 ft
- b) Decreases by 2° C / 100 m
- c) Decreases by 2° C / 1000 ft
- d) Increases by 2° C / 100 m

44. How may passengers assist the balloon pilot during landing preparation?

- a) By activating the emergency opening
- b) By activating the vents
- c) By stowing of loose parts
- d) By activating the pull rope

45. The term 'True Course' (TC) is defined as...

- a) The direction from an arbitrary point on Earth to the geographic North Pole.
- b) The angle between true north and the course line
- c) The angle between magnetic north and the course line.
- d) The direction from an arbitrary point on Earth to the magnetic north pole.

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46. The term 'agonic line' is defined as a line on Earth or an aeronautical chart, connecting all points with the...

- a) Deviation of 0°.
- b) Inclination of 0°.
- c) Heading of 0°.
- d) Variation of 0°.

47. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are the TH and the DEV? (2,00 P.)

- a) TH: 194°. DEV: +002°.
- b) TH: 172°. DEV: +002°
- c) TH: 172°. DEV: -002°.
- d) TH: 194°. DEV: -002°.

48. What are primary criteria for selecting a landing site? 1. Obstacle situation 2. Elevation of the site 3. Strength of surface wind

- a) 2 and 3
- b) 1, 2 and 3
- c) 1 and 2
- d) 1 and 3

49. Which transponder code has to be set unrequested during an emergency?

- a) 7700
- b) 7500
- c) 7600
- d) 7000

50. The majority of aviation accidents are caused by...

- a) Human failure
- b) Technical failure
- c) Geographical influences.
- d) Meteorological influences.

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51. Which of the following statements is correct?

- a) The density of hull air is lower with decreasing environmental pressure
- b) The density of hull air is higher with increasing environmental pressure
- c) The density of hull air is lower than environmental air only if the hull temperature is lower than environmental temperature
- d) The density of hull air is lower than environmental air only if the hull temperature is higher than environmental temperature

52. In which way may an altimeter subscale which is set to an incorrect QNH lead to an incorrect altimeter reading?

- a) If the subscale is set to a lower than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- b) If the subscale is set to a lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended
- c) If the subscale is set to a higher than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- d) If the subscale is set to a higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended

53. Which of the following statements is correct?

- a) At higher altitude, sink rate in case of cooling is increased due to less drag by less density.
- b) At higher altitude, sink rate by cooling is not increased because due to low density the mass inside the hull is also less.
- c) Higher drag at higher altitude prevents increased sink rate in case of cooling.
- d) Maximum sink rate must be equal at all altitudes as prescribed by design regulations.

54. Vienna (LOWW) is located at 016° 34'E, Salzburg (LOWS) at 013° 00'E. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between Wien and Salzburg? (2,00 P.)

- a) In Vienna the sunrise and sunset are about 4 minutes later than in Salzburg
- b) In Vienna the sunrise and sunset are about 14 minutes earlier than in Salzburg
- c) In Vienna the sunrise is 4 minutes later and sunset is 4 minutes earlier than in Salzburg
- d) In Vienna the sunrise is 14 minutes earlier and sunset is 14 minutes later than in Salzburg

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55. What is the primary purpose of an aircraft accident investigation?

- a) To Determine the guilty party and draw legal consequences
- b) To identify the reasons and work out safety recommendations
- c) To clarify questions of liability within the meaning of compensation for passengers
- d) To work for the public prosecutor and help to follow-up flight accidents

56. Mountain side updrafts can be intensified by ...

- a) Solar irradiation on the lee side
- b) Thermal radiation of the windward side during the night
- c) Solar irradiation on the windward side
- d) By warming of upper atmospheric layers

57. What is the meaning of the abbreviation "VMC"?

- a) Variable meteorological conditions
- b) Visual meteorological conditions
- c) Instrument flight conditions
- d) Visual flight rules

58. Which air traffic services can be expected within an FIR (flight information region)?

- a) FIS (flight information service) ALR (alerting service)
- b) ATC (air traffic control) FIS (flight information service)
- c) AIS (aeronautical information service) SAR (search and rescue)
- d) ATC (air traffic control) AIS (aeronautical information service)

59. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are the VAR and the DEV? (2,00 P.)

- a) VAR: 004° E. DEV: -002°.
- b) VAR: 004° W. DEV: +002°.
- c) VAR: 004° E. DEV: +002°.
- d) VAR: 004° W. DEV: -002°.

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60. Which of the stated surfaces will reduce the wind speed most due to ground friction?

- a) Flat land, lots of vegetation cover
- b) Oceanic areas
- c) Mountainous areas, vegetation cover
- d) Flat land, deserted land, no vegetation

61. Which weather phenomenon is typically associated with wind shear?

- a) Invernal warm front
- b) Stable high pressure areas.
- c) Thunderstorms.
- d) Fog.

62. What is the meaning of the phrase "Correction"?

- a) Permission for proposed action is granted
- b) An error has been made in this transmission. The correct version is...
- c) I have received all of your last transmission
- d) I understand your message and will comply with it

63. What kind of information should be included in an urgency message?

- a) Nature of problem or observation, important information for support, departure aerodrome, information about position, heading and altitude
- b) Intended routing, important information for support, intentions of the pilot, departure aerodrome, destination aerodrome, heading and altitude
- c) Intended routing, important information for support, intentions of the pilot, information about position, departure aerodrome, heading and altitude
- d) Nature of problem or observation, important information for support, intentions of the pilot, information about position, heading and altitude

64. Who provides search and rescue service?

- a) Only military organisations
- b) Both military and civil organisations
- c) Only civil organisations
- d) Only civil organisations

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65. What is the approximate speed of electromagnetic wave propagation?

- a) 300000 m/s
- b) 123000 m/s
- c) 300000 km/s
- d) 123000 km/s

66. Which phrase is to be repeated three times before transmitting an urgency message?

- a) Pan Pan
- b) Help
- c) Urgent
- d) Mayday

67. The shortest distance between two points on Earth is represented by a part of...

- a) A small circle.
- b) A great circle.
- c) A rhumb line
- d) A parallel of latitude.

68. The dynamic lift created by airflow across the top of the envelope of a balloon on the ground is referred to as?

- a) Lower lift
- b) Upper lift
- c) False lift
- d) Anti-ballast

69. What situation may result in the occurrence of severe wind shear?

- a) When a shower is visible close to the airfield
- b) Cross-country flying below Cu clouds with about 4 octas coverage
- c) During final approach, 30 min after a heavy shower has passed the airfield
- d) Flying ahead of a warm front with visible Ci clouds

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70. Lower-than-standard temperature may lead to...

- a) An altitude indication which is too high.
- b) An altitude indication which is too low.
- c) A correct altitude indication as long as the altimeter subscale is set to correct for non-standard temperature
- d) A blockage of the Pitot tube by ice, freezing the altimeter indication to its present value.

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Response Scheme

Compare your answers with the following diagram and mark your score!

| | | | |
|-------|-------|-------|-------|
| 01: D | 02: C | 03: C | 04: C |
| 05: D | 06: D | 07: D | 08: D |
| 09: C | 10: D | 11: A | 12: C |
| 13: C | 14: D | 15: B | 16: A |
| 17: A | 18: A | 19: C | 20: C |
| 21: B | 22: C | 23: C | 24: D |
| 25: B | 26: B | 27: C | 28: D |
| 29: A | 30: D | 31: B | 32: A |
| 33: B | 34: D | 35: C | 36: B |
| 37: A | 38: A | 39: A | 40: B |
| 41: B | 42: B | 43: C | 44: C |
| 45: B | 46: D | 47: D | 48: D |
| 49: A | 50: A | 51: D | 52: C |
| 53: A | 54: B | 55: B | 56: C |
| 57: B | 58: A | 59: D | 60: C |
| 61: C | 62: B | 63: D | 64: B |
| 65: C | 66: A | 67: B | 68: C |
| 69: A | 70: A | | |

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Response form

Use this form to mark your answers

| | | | |
|-----------|-----------|-----------|-----------|
| 01: _____ | 02: _____ | 03: _____ | 04: _____ |
| 05: _____ | 06: _____ | 07: _____ | 08: _____ |
| 09: _____ | 10: _____ | 11: _____ | 12: _____ |
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| 17: _____ | 18: _____ | 19: _____ | 20: _____ |
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| 25: _____ | 26: _____ | 27: _____ | 28: _____ |
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| 41: _____ | 42: _____ | 43: _____ | 44: _____ |
| 45: _____ | 46: _____ | 47: _____ | 48: _____ |
| 49: _____ | 50: _____ | 51: _____ | 52: _____ |
| 53: _____ | 54: _____ | 55: _____ | 56: _____ |
| 57: _____ | 58: _____ | 59: _____ | 60: _____ |
| 61: _____ | 62: _____ | 63: _____ | 64: _____ |
| 65: _____ | 66: _____ | 67: _____ | 68: _____ |
| 69: _____ | 70: _____ | | |