

# Exam simulation

Quiz BPL Hot Air - Balloon Pilot License - Communication



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STUDENT NAME:

DATE AND TIME:

## 01. What phrase is used by a pilot to inform the tower about a go-around?

- a) Approach canceled
- b) Going around
- c) No landing
- d) Pulling up

## 02. What cause may result in a reduction of volume of a free balloon?

- a) Reduction in mass
- b) A gust
- c) Cooling of environment air
- d) Increase in hull temperature

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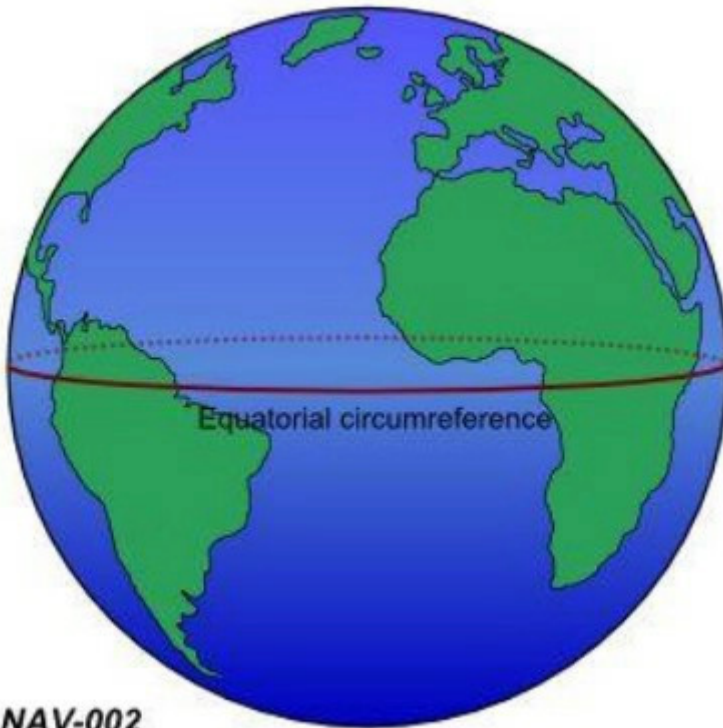
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**03. The circumference of the Earth at the equator is approximately... See figure (NAV-002) Siehe Anlage 1**

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

**04. Which altitude marks the lower limit where the the body is unable to completely compensate the effects of the low atmospheric pressure?**

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- a) 12000 feet
- b) 7000 feet
- c) 22000 feet
- d) 5000 feet

**05. What is the percentage of oxygen in the atmosphere at 6000 ft?**

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- a) 78 %
- b) 21 %
- c) 12 %
- d) 18.9 %

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## 06. Which are the properties of a Mercator chart?

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- a) The scales increases with latitude, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- b) The scale is constant, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- c) The scales increases with latitude, great circles are depicted as straight lines, rhumb lines are depicted as curved lines
- d) The scale is constant, great circles are depicted as straight lines, rhumb lines are depicted as curved lines

## 07. Information about operational limits, loading and performance about an aircraft can be taken from which document?

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- a) Airworthiness certificate.
- b) Operating handbook.
- c) Certificate of registration
- d) Flight Log book.

## 08. What is the function of the red blood cells (erythrocytes)?

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- a) Oxygen transport
- b) Immune defense
- c) Blood sugar regulation
- d) Blood coagulation

## 09. What is the correct way of establishing radio communication between D-EAZF and Dusseldorf Tower?

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- a) Dusseldorf Tower over
- b) DEAZF is calling Dusseldorf Tower
- c) Tower from D-EAZF
- d) Dusseldorf Tower D-EAZF

## 10. What is indicated by a red line on the hull thermometer with an analog scale?

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- a) The minimum permissible value
- b) The take-off temperature
- c) The maximum permissible value
- d) The recommended operating value

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**11. What is the correct phrase to begin a blind transmission?**

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- a) Transmitting blind
- b) No reception
- c) Listen
- d) Blind

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

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- 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

**13. Visual illusions are mostly caused by...**

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- a) Misinterpretation of the brain.
- b) Binocular vision.
- c) Rapid eye movements.
- d) Colour blindness.

**14. Which of the following qualities are influenced by stress? 1. Attention 2. Concentration 3. Responsiveness 4. Memory**

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- a) 2, 4
- b) 1
- c) 1, 2, 3, 4
- d) .1, 2, 3

**15. From which altitude on does the body usually react to the decreasing atmospheric pressure?**

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- a) 7000 feet
- b) 12000 feet
- c) 2000 feet
- d) 10000 feet

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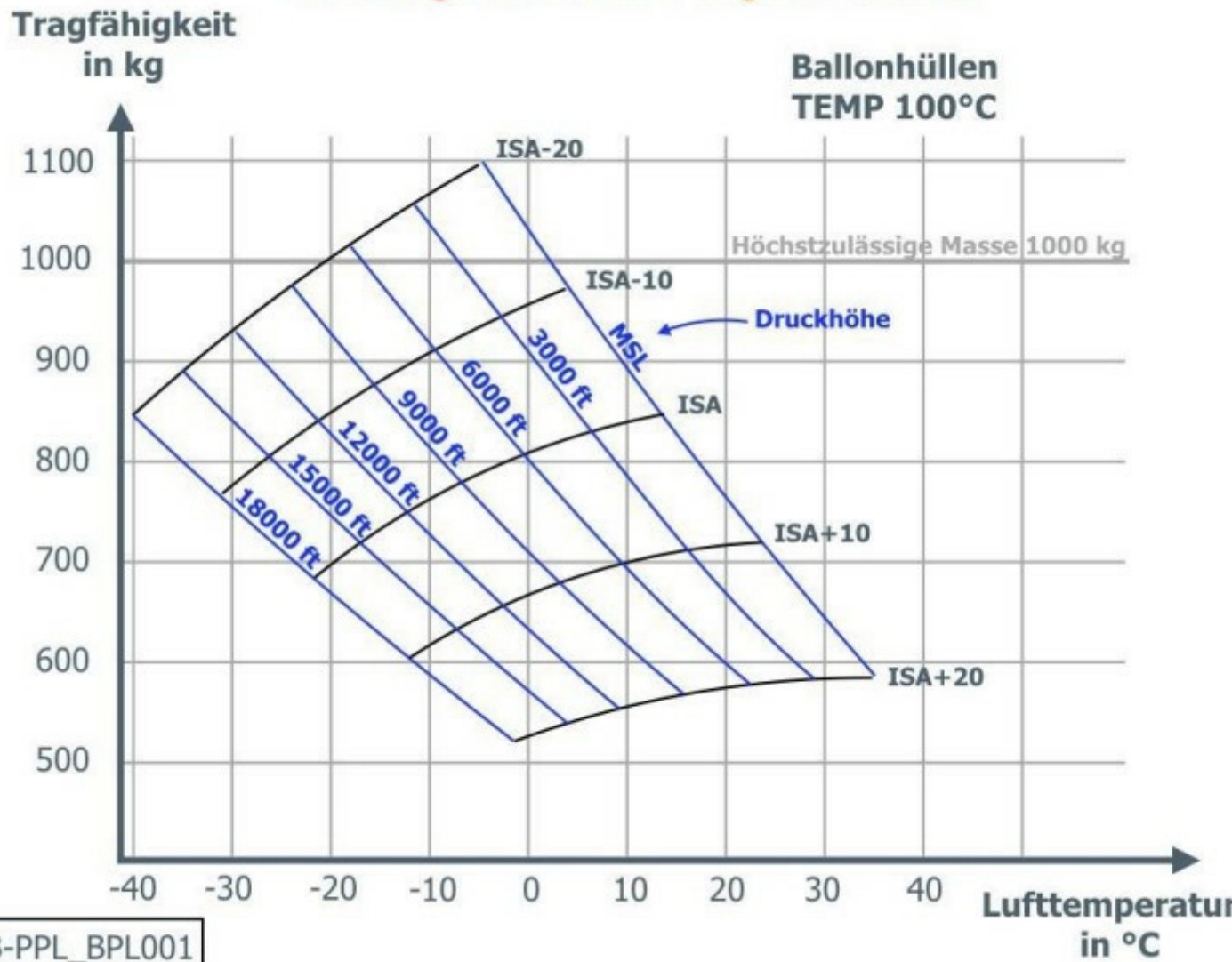
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16. Given the following masses: Empty mass 260 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg Assuming temperature ISA+10, how many persons may be carried in the basket at maximum, if the balloon with 4 gas containers has to 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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**17. Which parts of a hot-air balloon provide protection for the basket during landing?**

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- a) Wheels
- b) Rubber pads
- c) Wearing strips
- d) Steel runners

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**18. What has to be expected during descent above a heated water surface?**

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- a) The rate of descent increases.
- b) The rate of descent decreases
- c) The horizontal speed increases.
- d) The horizontal speed decreases.

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**19. What effect has the elevation above MSL of an airfield on the carrying force and maximum take-off mass of a balloon?**

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- a) The lower the elevation, the lower the maximum take-off mass
- b) The lower the elevation, the greater the carrying force.
- c) The lower the elevation, the higher the maximum take-off mass.
- d) The higher the elevation, the greater the carrying force.

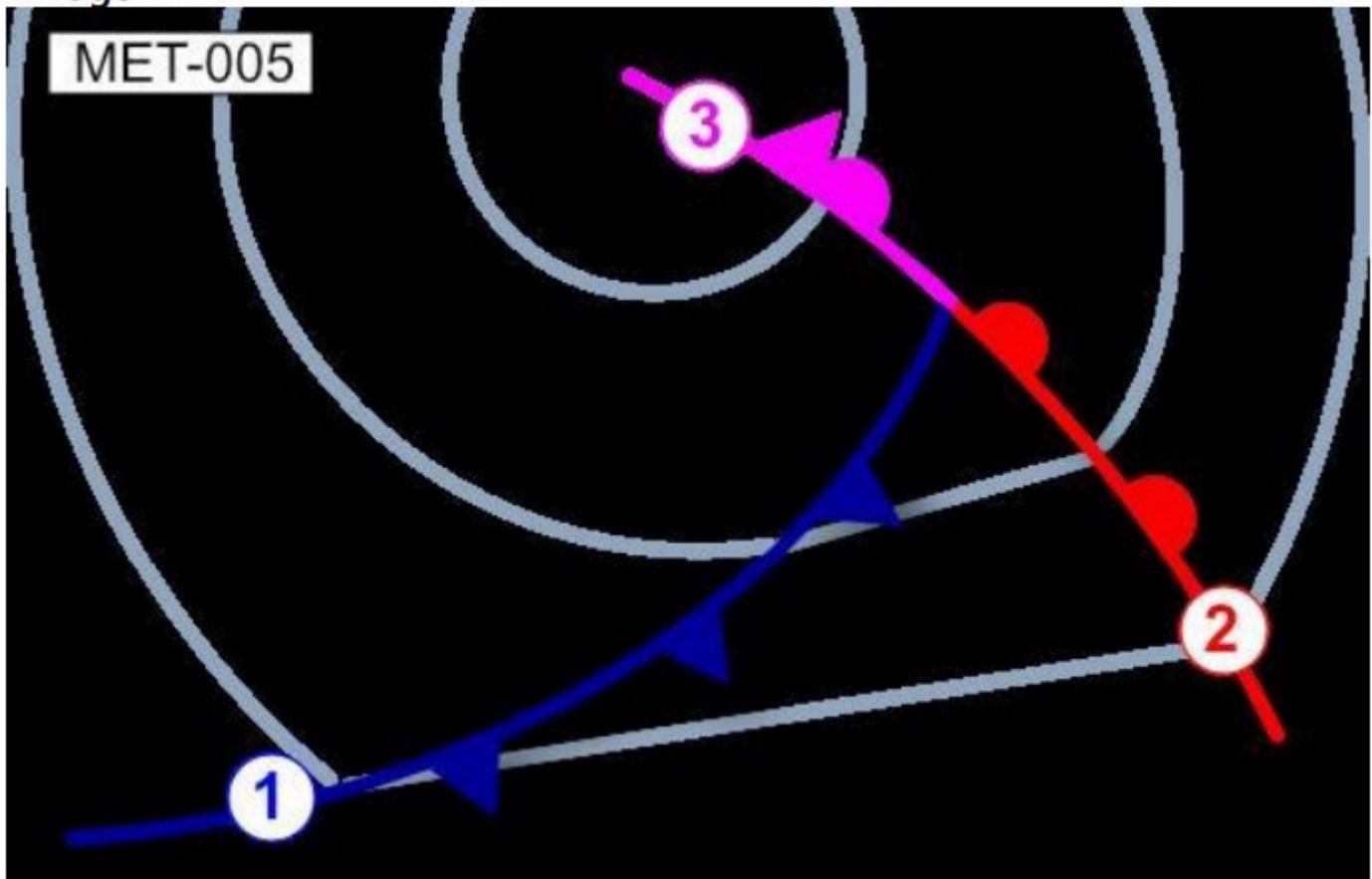
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20. The symbol labeled (2) as shown in the picture is a / an... See figure (MET-005) Siehe Anlage 4



- a) Front aloft.
- b) Cold front.
- c) Occlusion.
- d) Warm front.

21. 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)

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**22. What has to be expected when diving into an inversion layer from above?**

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- a) Rate of descent increases
- b) Rate of descent decreases.
- c) Sudden drop onto the ground.
- d) Uncontrollable oscillation of the basket.

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

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- 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.

**24. The standard state of gases refers to which temperature?**

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- a) 15° C
- b) 25° C
- c) 0° C
- d) 5° C

**25. What is the difference in latitude between A (12°53'30"N) and B (07°34'30"S)?**

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- a) 05°19'00"
- b) 20°28'00"
- c) 20,28°
- d) 05,19°

**26. The distance between two airports is 220 NM. On an aeronautical navigation chart the pilot measures 40.7 cm for this distance. The chart scale is...**

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- a) 1 : 2000000.
- b) 1 : 1000000.
- c) 1 : 500000.
- d) 1 : 250000.



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## 27. Which of the following messages has the highest priority?

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- a) Turn left
- b) Request QDM
- c) QNH 1013
- d) Wind 300 degrees, 5 knots

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

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

## 29. What is meant by "isothermal layer"?

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- a) A boundary area between two other layers within the atmosphere
- b) An atmospheric layer where temperature decreases with increasing height
- c) An atmospheric layer where temperature increases with increasing height
- d) An atmospheric layer with constant temperature with increasing height

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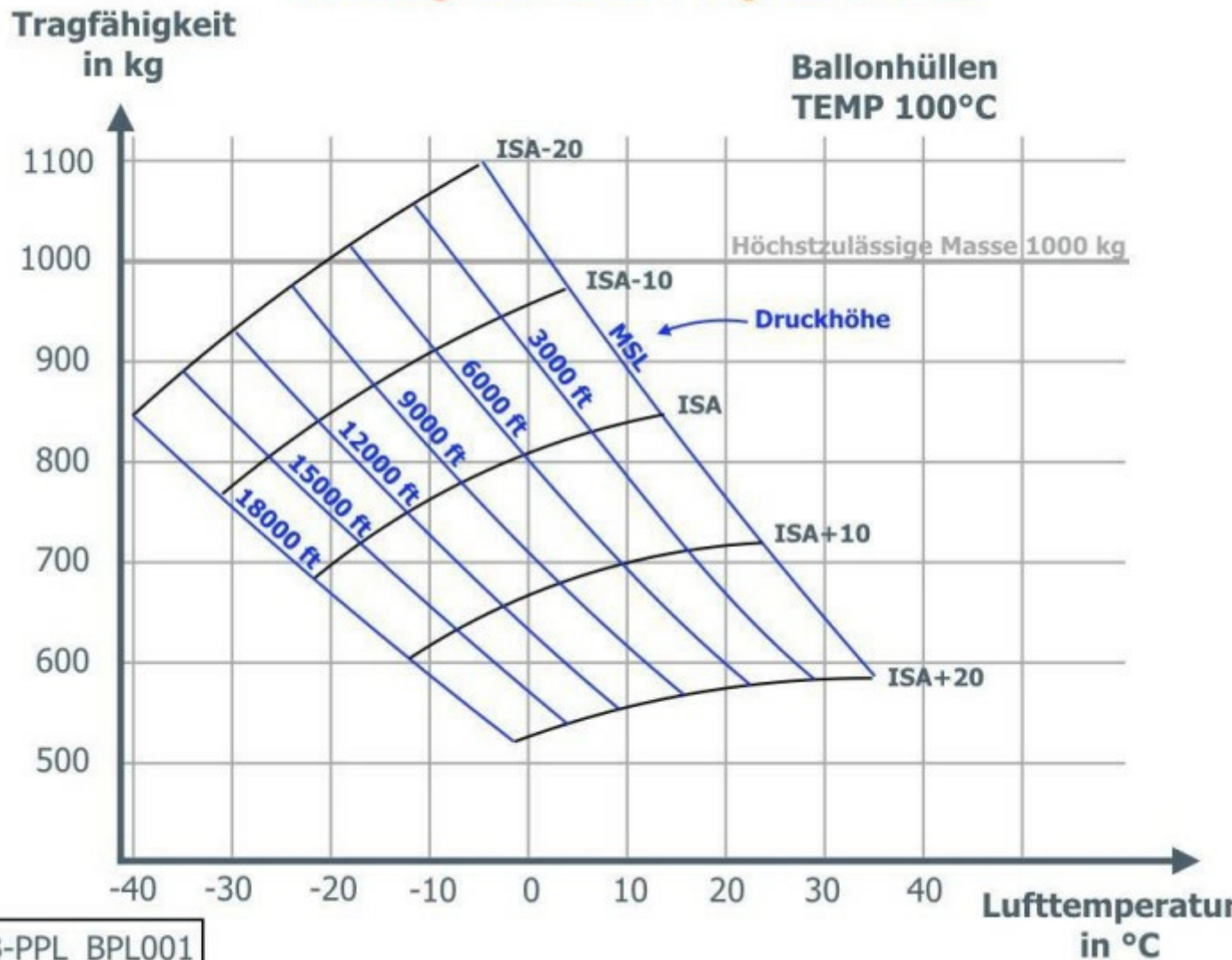
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30. Given the following masses: Empty mass 240 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg U which pressure altitude can the balloon climb with 5 persons and 4 gas containers in the basket, assuming temperatures below ISA? (use attachment ECQB-PPL\_BPL001) Siehe Anlage 1

## Auszug aus dem Flughandbuch



- a) 3000 ft
- b) 17000 ft
- c) 13000 ft
- d) 7000 ft

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**31. Air consists of oxygen, nitrogen and other gases. What is the approximate percentage of other gases?**

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- a) 1 %
- b) 21 %
- c) 0.1 %
- d) 78 %

**32. Under what conditions may class D airspace be entered with a radio failure?**

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- a) It is the destination aerodrome
- b) Approval has been granted before
- c) It is the aerodrome of departure
- d) There are other aircraft in the aerodrome circuit

**33. What is the meaning of the abbreviation "ARC"?**

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- a) Airspace Restriction Criteria
- b) Airworthiness Recurring Control
- c) Airworthiness Review Certificate
- d) Airspace Rulemaking Committee

**34. What phenomenon is caused by cold air downdrafts with precipitation from a fully developed thunderstorm cloud?**

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- a) Freezing Rain
- b) Gust front
- c) Electrical discharge
- d) Anvil-head top of Cb cloud

**35. The term 'magnetic course' (MC) is defined as...**

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

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## 36. What information is provided in the part "AD" of the AIP?

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- a) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods
- b) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts
- c) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces.
- d) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees

## 37. Aerostatic lift, amongst other factors, depends on...

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- a) Shape of the envelope.
- b) On the speed.
- c) Balloon mass.
- d) Air density.

## 38. Which transponder code should be set during a radio failure without any request?

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

## 39. The vertical speed indicator measures the difference of pressure between...

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- a) The present dynamic pressure and the static pressure of a previous moment.
- b) The present total pressure and the total pressure of a previous moment.
- c) The present dynamic pressure and the dynamic pressure of a previous moment.
- d) The present static pressure and the static pressure of a previous moment.

## 40. Which statement is correct with regard to the short-term memory?

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- a) It can store 5 ( $\pm 2$ ) items for 1 to 2 minutes
- b) It can store 3 ( $\pm 1$ ) items for 5 to 10 seconds
- c) It can store 7 ( $\pm 2$ ) items for 10 to 20 seconds
- d) It can store 10 ( $\pm 5$ ) items for 30 to 60 seconds

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## 41. Which conditions are likely for the formation of advection fog?

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- a) Cold, humid air moves over a warm ocean
- b) Humidity evaporates from warm, humid ground into cold air
- c) Warm, humid air cools during a cloudy night
- d) Warm, humid air moves over a cold surface

## 42. Measured pressure distribution in MSL and corresponding frontal systems are displayed by the...

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- a) Significant Weather Chart (SWC)
- b) Prognostic chart
- c) Surface weather chart.
- d) Hypsometric chart.

## 43. With Central European Summer Time (CEST) given as UTC+2, what UTC time corresponds to 1600 CEST?

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- a) 1700 UTC.
- b) 1600 UTC
- c) 1500 UTC.
- d) 1400 UTC.

## 44. What is the ISA standard pressure at FL 180 (5500 m)?

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- a) 500 hPa
- b) 1013.25 hPa
- c) 300 hPa
- d) 250 hPa

## 45. What may be the consequence, if gas containers of a hot-air balloon are refilled at temperatures below 0 °C by volume (80%)?

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- a) Too low pressure at high temperatures.
- b) Less burner power at high temperatures
- c) Smaller volume in the container at high temperatures.
- d) Overfilling of the gas container.

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**46. What does a cloud coverage of "BKN" mean in a METAR weather report?**

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- a) 5 to 7 eighths
- b) 1 to 2 eighths
- c) 8 eighths
- d) 3 to 4 eighths

**47. A true altitude is...**

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- a) An altitude above mean sea level corrected for non-standard temperature.
- b) A height above ground level corrected for non-standard pressure.
- c) A height above ground level corrected for non-standard temperature.
- d) A pressure altitude corrected for non-standard temperature.

**48. Which information from a ground station does not require readback?**

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- a) SSR-Code
- b) Wind
- c) Altitude
- d) Runway in use

**49. What is the correct frequency for an initial distress message?**

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- a) FIS frequency
- b) Radar frequency
- c) Current frequency
- d) Emergency frequency

**50. What factors may indicate a tendency to fog formation?**

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- a) Low pressure, increasing temperature
- b) Strong winds, decreasing temperature
- c) Low spread, increasing temperature
- d) Low spread, decreasing temperature

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**51. What is the consequence if the pressure at the burner valve is lower than 0.28 MPa (lower than 2.8 bar)?**

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- a) Take-off is prohibited.
- b) The gas container should be heated by the flame.
- c) The heating system may be damaged.
- d) The pressure in the gas container may be increased by use of acetylene.

**52. Which of the following statements is correct?**

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- 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.

**53. Which altitude is displayed on the altimeter when set to a specific QNH?**

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- a) Altitude in relation to the 1013.25 hPa datum
- b) Altitude in relation to the highest elevation within 10 km
- c) Altitude in relation to mean sea level
- d) Altitude in relation to the air pressure at the reference airfield

**54. The majority of aviation accidents are caused by...**

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

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

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

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**56. Which phrase is used by a pilot when he wants to fly through controlled airspace?**

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- a) Apply
- b) Want
- c) Request
- d) Would like

**57. What is the meaning of a steady green light signal at a controlled aerodrome directed to an aircraft in flight?**

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- a) Airport unsafe, do not land
- b) Return for landing, followed by steady green at the appropriate time
- c) Cleared to land
- d) Give way to other aircraft and continue circling

**58. Distress messages are messages...**

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- a) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight.
- b) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.
- c) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- d) Concerning the operation or maintenance of facilities which are important for the safety and regularity of flight operations.



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**59. (For this question, please use annex PFP-061) According ICAO, what symbol indicates a group of unlighted obstacles? Siehe Anlage 5**



PFP-061

- a) C
- b) D
- c) B
- d) A

**60. What effect has an increase in air temperature inside the hull of a hot air balloon by a given difference in temperature?**

- a) The increase in load carrying capacity increases with height.
- b) The increase in load carrying capacity decreases with height.
- c) The increase in rate of climb increases with height.
- d) The reduction in sink rate increases with height.

**61. 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

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**62. The vertical extend of air with pressure changing by 1% with 80 m difference in height is referred to as ...**

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- a) Inhomogene
- b) Homogene
- c) Unstable
- d) Stable

**63. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?**

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- a) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection is  $\pm 10$  NM
- b) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS.
- c) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection is  $\pm 10^\circ$
- d) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS.

**64. With regard to gases, which statement is correct?**

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- a) Temperature increases with increasing volume and decreasing pressure.
- b) Volume increases with increasing temperature and constant pressure.
- c) Temperature decreases with increasing pressure and constant volume.
- d) Pressure decreases with increasing temperature and constant volume.

**65. Why should liquid gas bottles for hot-air balloons be transported upright?**

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- a) Because no other positions are approved.
- b) To prevent damage on the riser tube.
- c) To prevent exiting of residual gas.
- d) To keep the armature panel clean.

**66. Which of the following options states a correct position report?**

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- a) DEABC over "N" in FL 2500 ft
- b) DEABC over "N" at 35
- c) DEABC, "N", 2500 ft
- d) DEABC reaching "N"

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**67. What factor may affect the top of cumulus clouds?**

- a) The spread
- b) Relative humidity
- c) The absolute humidity
- d) The presence of an inversion layer

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**68. 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.

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**69. Under which circumstances is it more likely to accept higher risks?**

- a) During check flights due to a high level of nervousness
- b) During flight planning when excellent weather is forecast
- c) Due to group-dynamic effects
- d) If there is not enough information available

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**70. What pressure pattern may result from cold-air inflow in high tropospheric layers?**

- a) Formation of a low in the upper troposphere
- b) Formation of a large ground low
- c) Alternating pressure
- d) Formation of a high in the upper troposphere

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## Response Scheme

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

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