

# Exam simulation

BPL Hot Air - Balloon Pilot License - Communication



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STUDENT NAME:

DATE AND TIME:

## 01. Which weather phenomenon is typically associated with wind shear?

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

## 02. 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

## 03. 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

## 04. Which of the following options states the working principle of a vertical speed indicator?

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- a) Total air pressure is measured and compared to static pressure
- b) Static air pressure is measured and compared against a vacuum
- c) Measuring the present static air pressure and comparing it to the static air pressure inside a reservoir
- d) Measuring the vertical acceleration through the displacement of a gimbal-mounted mass

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## 05. Which instrument can be affected by the hysteresis error?

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- a) Altimeter
- b) Tachometer
- c) Direct reading compass
- d) Vertical speed indicator

## 06. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are TH and VAR?

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- a) TH: 172°. VAR: 004° E
- b) TH: 194°. VAR: 004° E
- c) TH: 172°. VAR: 004° W
- d) TH: 194°. VAR: 004° W

## 07. The final sinkrate of a hot-air balloon is achieved after descent over a vertical distance of:

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- a) 1000 - 2000 m
- b) 50 - 100 m
- c) 250 - 450 m
- d) 500 - 1000 m

## 08. The movement of air flowing apart is called...

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- a) Divergence
- b) Concordance
- c) Convergence
- d) Subsidence

## 09. 1000 ft equal...

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- a) 3000 m
- b) 300 m
- c) 30 km
- d) 30 m

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## 10. What has to be considered when entering an RMZ?

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- a) To obtain a clearance to enter this area
- b) The transponder has to be switched on Mode C and squawk 7000
- c) To permanently monitor the radio and if possible to establish radio contact
- d) To obtain a clearance from the local aviation authority

## 11. What must be considered for cross-border flights?

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- a) Transmission of hazard reports
- b) Approved exceptions
- c) Regular location messages
- d) Requires flight plans

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

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

## 13. The shown NOTAM is valid until... A) 1024/26 A) LOWW B) 2605211200 C) 2605211400 E) STOCKERAU VOR STO 113.00 UNSERVICEABLE.

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- a) 21/05/2027 13:00 UTC
- b) 13/05/2026 12:00 UTC
- c) 13/10/2026 00:00 UTC
- d) 21/05/2026 14:00 UTC

## 14. 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

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**15. For what approximate time period can the short-time memory store information?**

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- a) 10 to 20 seconds
- b) 3 to 7 seconds
- c) 30 to 40 seconds
- d) 35 to 50 seconds

**16. After take-off with a balloon, obstacles at a distance of 300 m erect in expected flight path up to 40 m height. Rate of climb is expected with 1.5 m/s. What maximum actual wind speed can be accepted to maintain a clearance of 50 m above obstacles, assuming double the actual wind speed for calculation?**

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- a) 8 m/s
- b) 2.5 m/s
- c) 10 m/s
- d) 1 m/s

**17. What is the purpose of the semi-circular rule?**

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- a) To avoid collisions by suspending turning manoeuvres
- b) To fly without a filed flight plan in prescribed zones published in the AIP
- c) To avoid collisions by reducing the probability of opposing traffic at the same altitude
- d) To allow safe climbing or descending in a holding pattern

**18. 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

**19. What is indicated by a yellow arc on the hull thermometer with an analog scale?**

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- a) Maximum permissible values
- b) The cautious area
- c) Readability improvement
- d) The normal operating area

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**20. 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 %

**21. 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

**22. Which wind system may be dangerous for balloon rides in the Alps?**

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- a) Bora
- b) Scirocco
- c) Mistral
- d) Foehn

**23. 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

**24. Which approximate, geometrical form describes the shape of the Earth best for navigation systems?**

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- a) Sphere of ecliptical shape
- b) Ellipsoid
- c) Flat plate
- d) Perfect sphere

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**25. A cross-country flight is made using the ICAO 1 : 500.000 aeronautical chart. An overflight crosscheck shows that a distance of 4 cm in the chart has been passed within 12 minutes. After how many more minutes, the overflight of another waypoint at a chart distance of additional 6 cm can be expected?**

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- a) 9 min
- b) 6 min
- c) 12 min
- d) 18 min

**26. What has to be done in case the balloon shows a strong tendency to climb while crossing thermals?**

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- a) It must be heated continuously to maintain hull temperature
- b) It must be heated stronger than usual
- c) The burner has to be cut off immediately
- d) The pull-rope has to be actuated immediately

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

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

**28. A pilot license issued in accordance with ICAO Annex 1 is valid in...**

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- a) The country where the license was acquired
- b) All ICAO countries
- c) The country where the license was issued
- d) Those countries that have accepted this license on application

**29. The aerostatic lift corresponds to which force?**

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- a) The weight of the balloon less ballast
- b) The dynamic force due to airstream across the top of the hull
- c) The weight of the displaced air
- d) The drag due to airstream around the balloon envelope

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## 30. The "swiss cheese model" can be used to explain the...

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- a) Optimal problem solution
- b) State of readiness of a pilot
- c) Procedure for an emergency landing
- d) Error chain

## 31. Which factor can lead to human error?

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- a) Double check of relevant actions
- b) To be doubtful if something looks unclear or ambiguous
- c) The bias to see what we expect to see
- d) Proper use of checklists

## 32. 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

## 33. Carbon monoxide poisoning can be caused by...

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

## 34. Which of the following options are possible SSR-Transponder modes?

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- a) B, R, S
- b) A, C, S
- c) A, C, R
- d) B, C, V

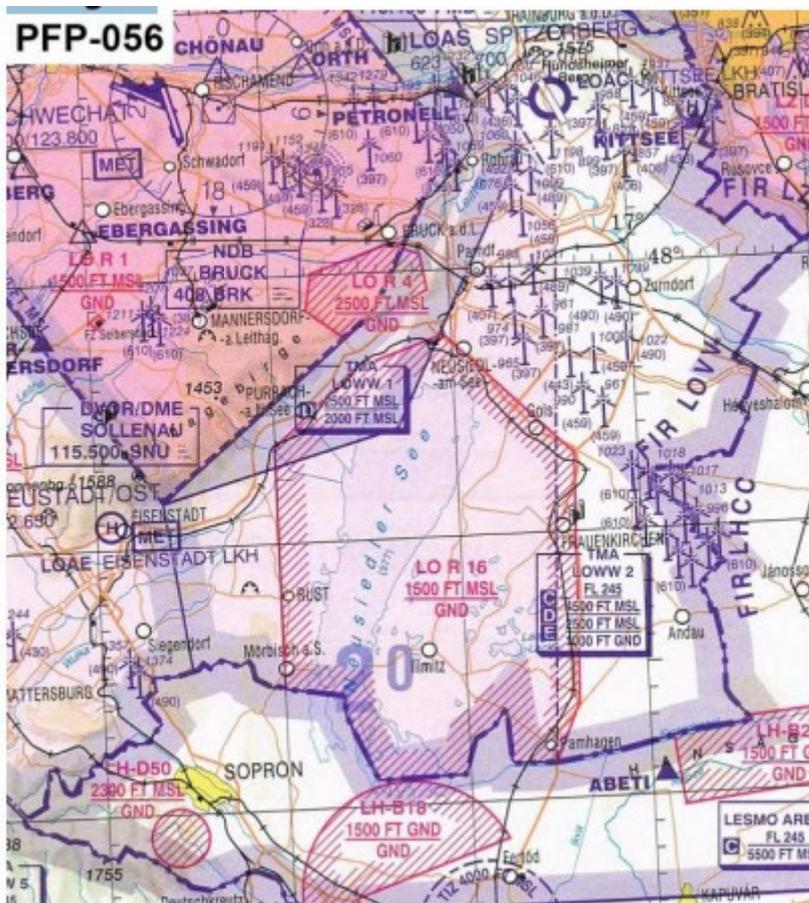
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## 35. The upper limit of LO R 16 equals... See annex (PFP-056)



- a) FL150
- b) 1500 ft GND
- c) 1500 ft MSL
- d) 1500 m MSL

## 36. Which dangerous attitudes are often combined?

- a) Impulsivity and carefulness
- b) Macho and invulnerability
- c) Self-abandonment and macho
- d) Invulnerability and self-abandonment

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## 37. Where does the inclination reach its lowest value?

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- a) At the geographic equator
- b) At the magnetic poles
- c) At the magnetic equator
- d) At the geographic poles

## 38. 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

## 39. The majority of aviation accidents are caused by...

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

## 40. What is an indication for a macho attitude?

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- a) Quick resignation in complex and critical situations
- b) Comprehensive risk assessment when faced with unfamiliar situations
- c) Careful walkaround procedure
- d) Risky flight maneuvers to impress spectators on ground

## 41. On summer days with calm winds, the balloon pilot has to expect:

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- 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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## 42. The Empty Mass of a gas balloon includes:

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- a) Ballast packages, basket, hull, valve and towing rope
- b) Basket, burner, ballast packages, hull, net and towing rope
- c) Basket, basket ring, valve, net, hull and towing rope
- d) Burner, ballast packages, instruments, net and towing rope

## 43. Which of the following documents have to be on board for an international flight? a) Certificate of aircraft registration b) Certificate of airworthiness c) Airworthiness review certificate d) EASA Form-1 e) Airplane logbook f) Appropriate papers for every crew member g) Technical logbook

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- a) a, b, c, e, f
- b) d, f, g
- c) b, c, d, e, f, g
- d) a, b, e, g

## 44. 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

## 45. During a flight in colder-than-ISA air the indicated altitude is...

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

## 46. An aircraft travels 100 km in 56 minutes. The ground speed (GS) equals...

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- a) 93 kt
- b) 198 kt
- c) 107 km/h
- d) 58 km/h

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## 47. What is a latent error?

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- a) An error which has an immediate effect on the controls
- b) An error which is made by the pilot actively and consciously
- c) An error which remains undetected in the system for a long time
- d) An error which only has consequences after landing

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

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

## 49. What does a readability of 2 indicate?

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

## 50. What is meant by "inversion layer"?

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

## 51. What is the minimum flight visibility in airspace "C" at and above FL 100 for an aircraft operating under VFR?

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- a) 10 km
- b) 8 km
- c) 5 km
- d) 1.5 km

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**52. What distance corresponds to one degree difference in latitude along any degree of longitude?**

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- a) 60 km
- b) 30 NM
- c) 1 NM
- d) 60 NM

**53. An aerodrome beacon (ABN) is a...**

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- a) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground
- b) Rotating beacon installed at the beginning of the final approach to indicate its location to aircraft pilots from the air
- c) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air
- d) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air

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

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

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

---

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

**56. What pressure pattern can be observed when a cold front is passing?**

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- a) Continually decreasing pressure
- b) Shortly decreasing, thereafter increasing pressure
- c) Constant pressure pattern
- d) Continually increasing pressure

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**57. At temperature below 0 °C the pressure at the burner is at 0.2 MPa (2 bar). Is take-off permissible with the hot air balloon?**

---

- a) No, pressure at burner is too low
- b) Only with double-burner system installed
- c) Yes, at low temperatures a low hull temperature is sufficient
- d) Yes, not a problem

**58. What is meant by the term "terrestrial navigation"?**

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- 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

**59. Which abbreviation is used for the term "abeam"?**

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- a) ABB
- b) ABA
- c) ABM
- d) ABE

**60. The term 'isogonal' or 'isogonic line' is defined as a line on an aeronautical chart, connecting all points with the same value of...**

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- a) Variation
- b) Inclination
- c) Heading
- d) Deviation

**61. What does a readability of 5 indicate?**

---

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

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

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

## 63. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PPF-024)

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A4604/11 NOTAMN

Q)

EDWW/QROLP/IV/NBO/W/000/095/5155N01037E004

A) EDWW

B) 1111180800 C) 1111181200

E) OVERFLYING PROHIBITED FOR ALL TRAFFIC RADIUS 3.35NM CENTERED AROUND 515436N 0103725E DUE TO DEMOLITION OF EXPLOSIVES AT ECKERTHAL, (25NM S BRAUNSCHWEIG NDB BRU).

F) GND

G) 9500 FT AMSL

- a) Flight Level 95
- b) Altitude 9500 m MSL
- c) Height 9500 ft
- d) Altitude 9500 ft MSL

## 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

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

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

**66. Which validity does the "Certificate of Airworthiness" have?**

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

**67. What is the meaning of the abbreviation "AIREP"?**

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- a) Aeronautical instrument requirement report
- b) Aircraft report
- c) Automatic identification report
- d) Aeronautical information report

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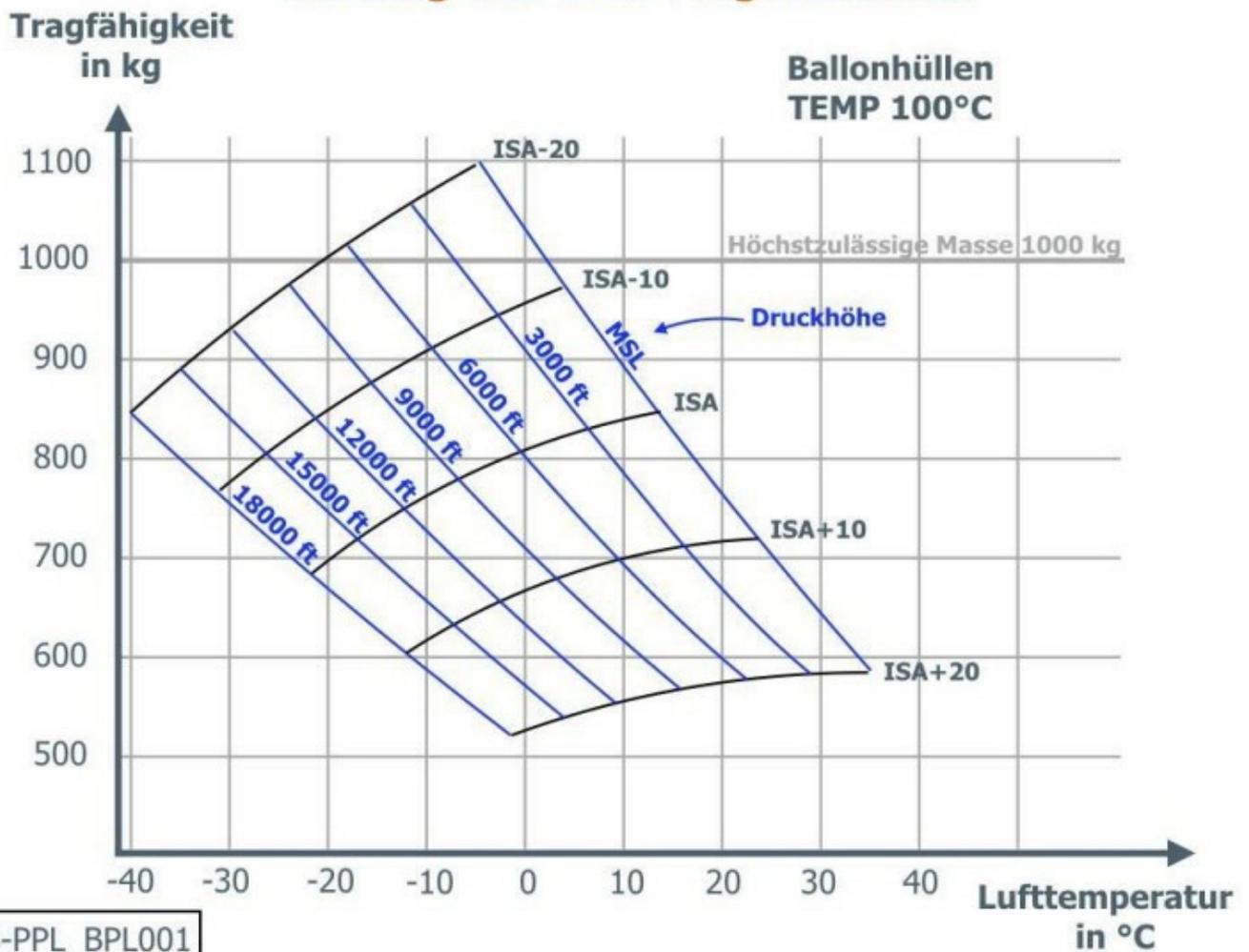
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68. Given the following masses: Empty mass 240 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg Up to which pressure altitude can the balloon climb with 5 persons and 4 gas containers in the basket, assuming temperatures 10° below ISA? (use attachment ECQB-PPL\_BPL001)

## Auszug aus dem Flughandbuch



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

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**69. 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

**70. About the lower end of the pull rope of a hot-air balloon it can be said:**

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- a) It has an especially smooth surface
- b) It is fixed to the lower basket area
- c) It has to be lubricated before every take-off
- d) It is particularly heat resistant

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## Response Scheme

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

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

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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: _____		