

# Exam simulation

Quiz BPL Gas - Balloon Pilot License - Air Law



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STUDENT NAME:

DATE AND TIME:

**01. The angle between compass north and magnetic north is called...**

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

**02. Which area could be crossed with certain restrictions?**

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- a) Restricted area
- b) No-fly zone
- c) Prohibited area
- d) Dangerous area

**03. 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

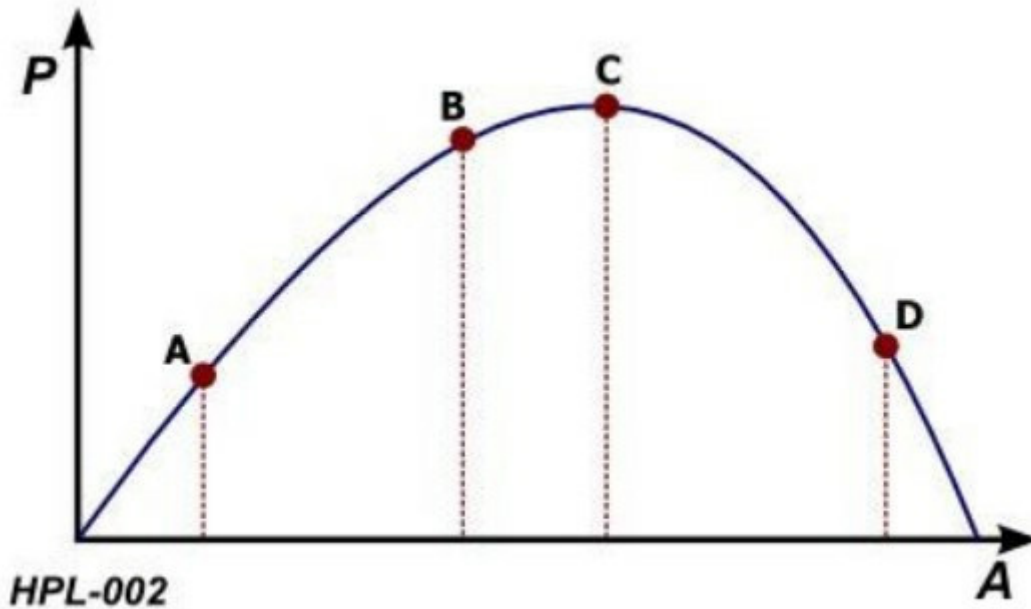
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04. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance  
A = Arousal / Stress



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

05. After take-off with a balloon, obstacles at a distance of 600 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?

- a) 1 m/s
- b) 3 m/s
- c) 5 m/s
- d) 10 m/s

06. Electronic devices on board of an aeroplane have influence on the...

- a) Direct reading compass
- b) Artificial horizon
- c) Airspeed indicator
- d) Turn coordinator

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**07. 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

**08. A transponder with the ability to send the current pressure level is a...**

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- a) Mode C or S transponder
- b) Mode A transponder
- c) Transponder approved for airspace "B"
- d) Pressure-decoder

**09. 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

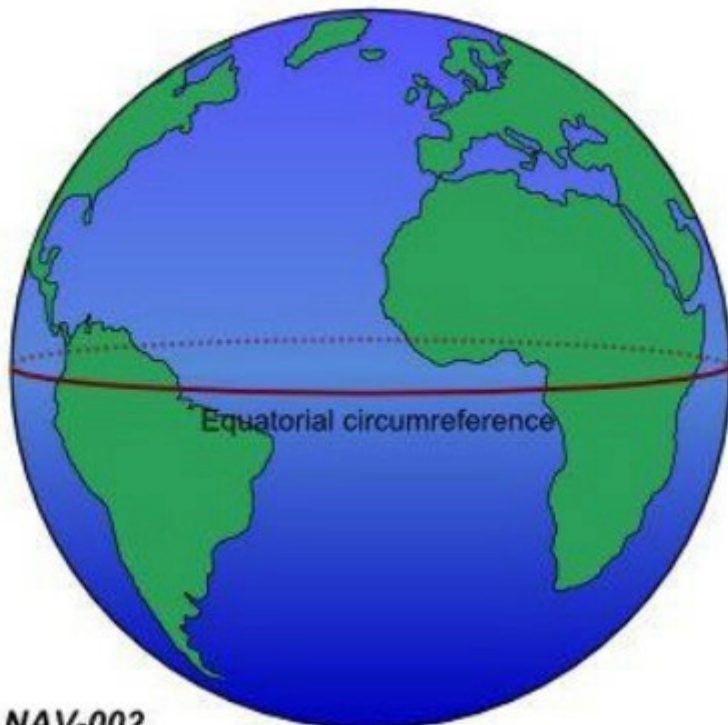
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10. The circumference of the Earth at the equator is approximately... See figure (NAV-002)



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

11. 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 higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended
- b) 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
- c) 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
- d) 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

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

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

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

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- 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

## 14. Where are the two polar circles?

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- a) 23.5° north and south of the poles
- b) 23.5° north and south of the equator
- c) At a latitude of 20.5°S and 20.5°N
- d) 20.5° south of the poles

## 15. Which altitude marks the lower limit where 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

## 16. While overflying a waypoint, it is stated that a distance of 3 NM has been taken 10 min. What will be the expected time of endurance for the complete distance of 18 NM?

---

- a) 60 min
- b) 90 min
- c) 12 min
- d) 180 min

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## 17. What clouds and weather can typically be observed during the passage of a cold front?

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- a) Strongly developed cumulus clouds (Cb) with showers of rain and thunderstorms, gusting wind followed by cumulus clouds with isolated showers of rain
- b) Wind becoming calm, dissipation of clouds and warming during summer; formation of extended high fog layers during winter
- c) Cirrus, thickening altostratus and altocumulus clouds, lowering cloud base with rain, nimbostratus
- d) In coastal areas during daytime wind from the coast and forming of cumulus clouds, dissipation of clouds during evening and night

## 18. 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

## 19. The burst of a hydrogen pressure line may result in what risk?

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- a) The risk of hydrogen collecting in the basket and causing breath shortness
- b) The risk of hydrogen self-igniting and burning with a bright flame
- c) The risk of hydrogen dissipating to the atmosphere and poisoning the air
- d) The risk of hydrogen self-igniting and burning with invisible flame

## 20. Clouds in high layers are referred to as...

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- a) Strato-
- b) Alto-
- c) Cirro-
- d) Nimbo-

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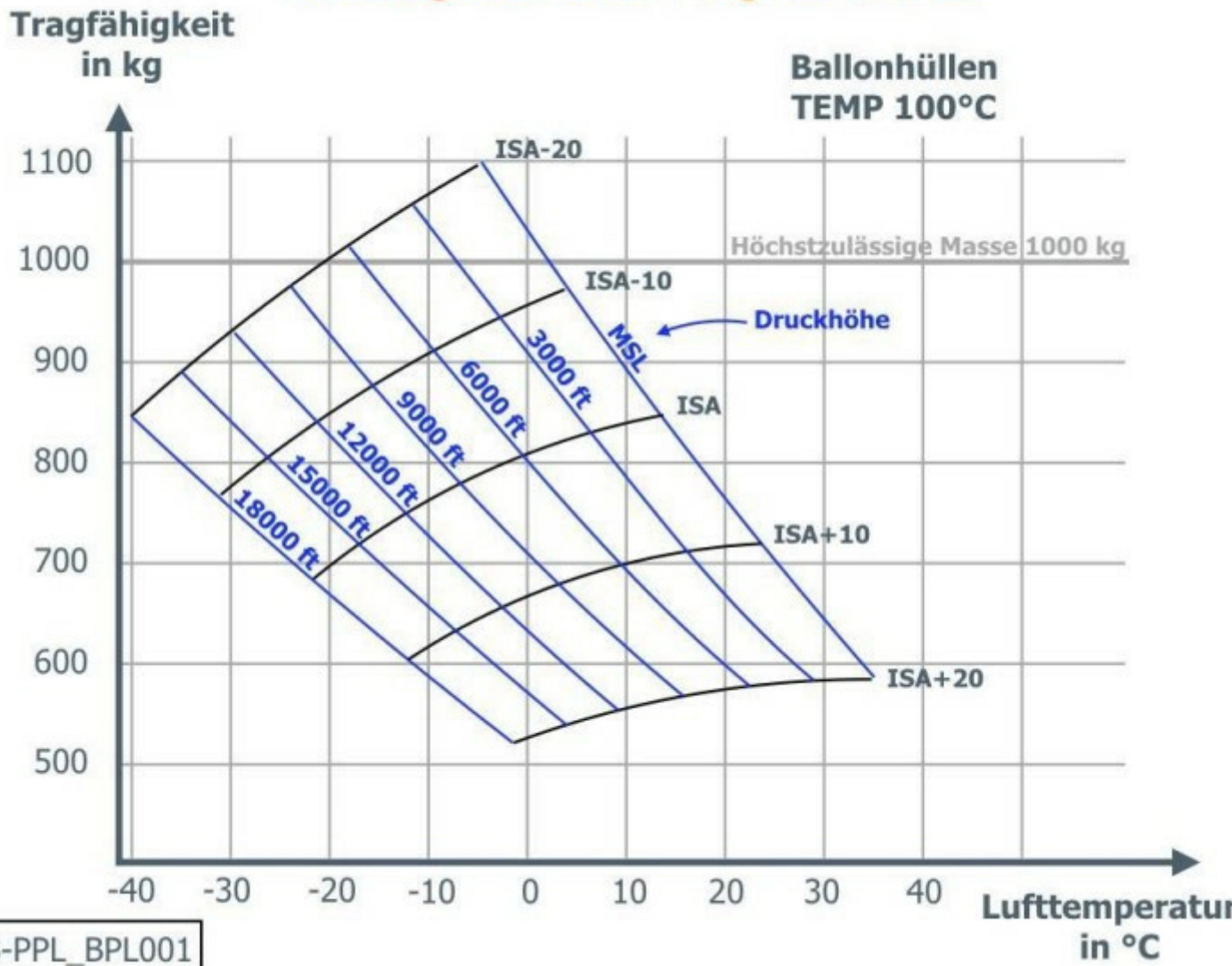
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21. Given the following masses: Empty mass 240 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg U which pressure altitude can the balloon climb with 5 persons and 4 gas containers in the basket, assuming temperatures below ISA?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

## Auszug aus dem Flughandbuch



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

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## 22. What is the status of the rules and procedures created by the EASA? (e.g. Part-SFCL, Part-MED)

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- a) They have the same status as ICAO Annexes
- b) They are not legally binding, they only serve as a guide
- c) They are part of the EU regulation and legally binding to all EU member states
- d) Only after a ratification by individual EU member states they are legally binding

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

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

## 24. Which transponder code indicates a loss of radio communication?

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- a) 7700
- b) 7600
- c) 7000
- d) 2000

## 25. Above the friction layer, with a prevailing pressure gradient, the wind direction is...

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- a) At an angle of 30° to the isobars towards low pressure
- b) Perpendicular to the isobars
- c) Parallel to the isobars
- d) Perpendicular to the isohypses

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

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

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

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

**29. When do you expect wind shear?**

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- a) During an inversion
- b) During a summer day with calm winds
- c) In calm wind in cold weather
- d) When passing a warm front

**30. What is the purpose of the closing rope of a gas balloon?**

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- a) To close the sand disposer
- b) To close the appendix
- c) To close the emergency opening
- d) To secure the towing rope

**31. Which abbreviation is used for the term "visual flight rules"?**

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- a) VFS
- b) VRU
- c) VMC
- d) VFR

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## 32. Which direction corresponds to 'compass north' (CN)?

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- a) The most northerly part of the magnetic compass in the aircraft, where the reading takes place
- b) The direction from an arbitrary point on Earth to the geographical North Pole
- c) The angle between the aircraft heading and magnetic north
- d) The direction to which the direct reading compass aligns due to earth's and aircraft's magnetic fields

## 33. Urgency messages are messages...

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

## 34. In what different ways can a risk be handled appropriately?

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- a) Avoid, ignore, palliate, reduce
- b) Extrude, avoid, palliate, transfer
- c) Ignore, accept, transfer, extrude
- d) Avoid, reduce, transfer, accept

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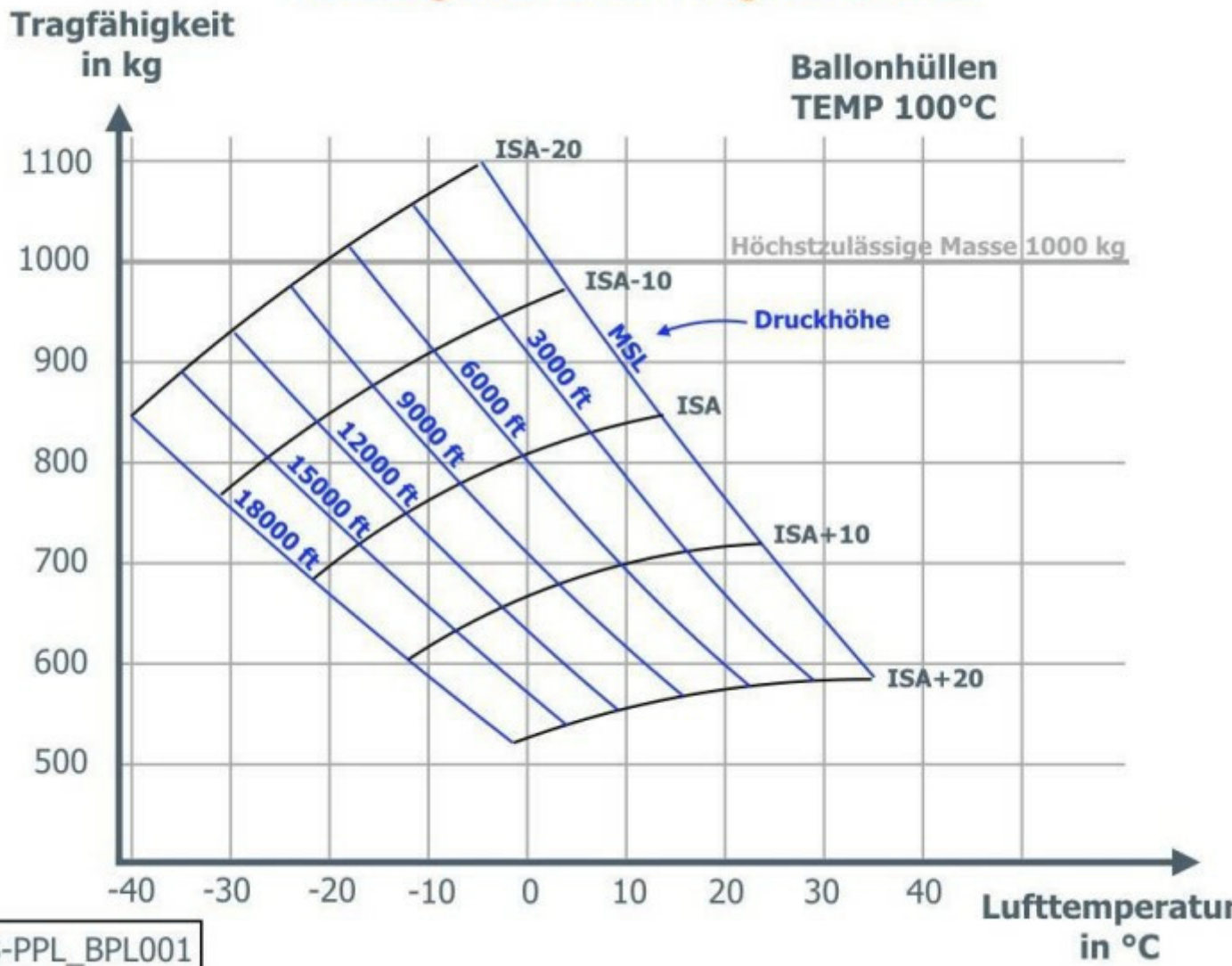
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35. Given the following masses: Empty mass 260 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg Assuming ISA temperatures, how many persons may be carried in the basket at maximum, if the balloon with 4 gas containers has to climb up to pressure altitude 9.000 ft ? (use attachment ECQB-PPL\_BPL001)

## Auszug aus dem Flughandbuch



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

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36. While overflying a waypoint, it is stated that a distance of 2 NM has been taken 10 min. What will be the expected time of endurance for the complete distance of 18 NM?

---

- a) 60 min
- b) 12 min
- c) 180 min
- d) 90 min

37. 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

38. (For this question, please use annex PFP-063) According ICAO, what symbol indicates a general spot elevation?

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- A 300
- B (300)
- C • 1737
- D • 1737

PFP-063

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

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## 39. What is the percentage of nitrogen in the atmosphere?

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

## 40. What effect can sudden insolation from sunlight have on a gas balloon?

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- a) The height at maximum differential pressure decreases
- b) The height at maximum differential pressure increases
- c) The hull pressure decreases
- d) A sudden increase in rate of descent

## 41. Times are transmitted as...

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- a) Standard time
- b) Time zone time
- c) Local time
- d) UTC

## 42. What weather is likely to be experienced during "Foehn" in the Bavarian area close to the Alps?

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- a) High pressure area overhead Biscay and low pressure area in Eastern Europe
- b) Nimbostratus cloud in the southern Alps, rotor clouds at the lee side, warm and dry wind
- c) Cold, humid downhill wind on the lee side of the Alps, flat pressure pattern
- d) Nimbostratus cloud in the northern Alps, rotor clouds at the windward side, warm and dry wind

## 43. What has to be expected by the balloon pilot during descent in deeply cooled layers close to the ground?

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- a) Floating on top of the cold air layer
- b) Sudden change in airspeed
- c) Balloon starts to climb
- d) Increasing descent while entering to ground layers

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## 44. 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

## 45. 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

## 46. A wind shear is...

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- a) A slow increase of the wind speed in altitudes above 13000 ft
- b) A meteorological downslope wind phenomenon in the alps
- c) A vertical or horizontal change of wind speed and wind direction
- d) A wind speed change of more than 15 kt

## 47. What visual flight conditions can be expected after the passage of a cold front?

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- a) Poor visibility, formation of overcast or ground-covering stratus clouds, snow
- b) Medium visibility with lowering cloud bases, onset of prolonged precipitation
- c) Good visibility, formation of cumulus clouds with showers of rain or snow
- d) Scattered cloud layers, visibility more than 5 km, formation of shallow cumulus clouds

## 48. 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

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**49. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL125?**

---

- a) 5000 m
- b) 3000 m
- c) 8000 m
- d) 1500 m

**50. A risk factor for decompression sickness is...**

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- a) Scuba diving prior to flight
- b) 100 % oxygen after decompression
- c) Sports
- d) Smoking

**51. What is the meaning of the abbreviation "SERA"?**

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- a) Selective Radar Altimeter
- b) Standard European Routes of the Air
- c) Specialized Radar Approach
- d) Standardized European Rules of the Air

**52. What is the call sign of the flight information service?**

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- a) Advice
- b) Flight information
- c) Info
- d) Information

**53. What does a readability of 3 indicate?**

---

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

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**54. What is the minimum flight visibility in airspace "C" below FL 100 for an aircraft operating under VFR?**

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

**55. 1000 ft equal...**

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

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

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

**57. 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

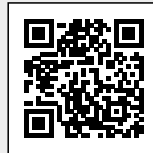
**58. Air consists of oxygen, nitrogen and other gases. What is the approximate percentage of other gases?**

---

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

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**59. Assume two arbitrary points A and B on the same parallel of latitude, but not on the equator. Point A is located on 010°E and point B on 020°E. The rhumb line distance between A and B is always...**

---

- a) More than 300 NM
- b) Less than 300 NM
- c) Less than 600 NM
- d) More than 600 NM

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

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

**61. The shown NOTAM is valid until... A) 1024/26 B) LOWW C) 2605211200 D) 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

**62. How does a gas react when released from a pressurized container?**

---

- a) The gas heats adiabatically due to expansion
- b) The gas cools adiabatically due to expansion
- c) The gas condenses inside the envelope
- d) The gas cools due to thermal contact with environmental air

**63. Which statement is correct with regard to the polar axis of the Earth?**

---

- a) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is at an angle of 23.5° to the plane of the equator
- b) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is perpendicular to the plane of the equator
- c) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is perpendicular to the plane of the equator
- d) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is at an angle of 66.5° to the plane of the equator

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**64. In which situation is it NOT possible to achieve a pressure compensation between the middle ear and the environment?**

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- a) During a light and slow climb
- b) Breathing takes place using the mouth only
- c) The Eustachian tube is blocked
- d) All windows are completely closed

**65. 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

**66. At time of take-off, ground wind speed is 3 m/s. Along take-off flight path, at a distance of 270 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)**

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

**67. 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

**68. How should a landing of a gas balloon be conducted at strong winds?**

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- a) Drop tow; in sufficient height activate rip panel
- b) Activate rip panel without throwing tow
- c) Drop tow; activate rip panel after ground contact
- d) Drop tow; conduct landing with use of valve

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## 69. During a flight, a flight plan can be filed at the...

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- a) Search and Rescue Service (SAR)
- b) Next airport operator en-route
- c) Flight Information Service (FIS)
- d) Flight Information Service (FIS)

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

---

- a) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces
- 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 airspaces
- d) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods

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## Response Scheme

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

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

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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: _____		