

# Exam simulation

Exam BPL Gas - Balloon Pilot License - Air Law

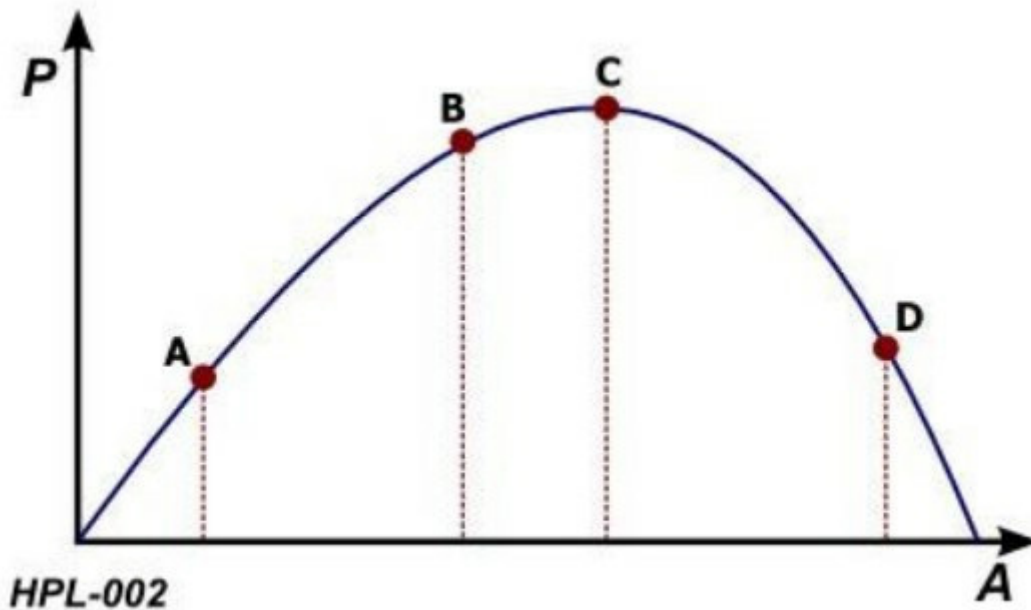


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STUDENT NAME:

DATE AND TIME:

**01. 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

**02. 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 next best chance for landing
- c) Use GPS or radio navigation to continue ride in clouds
- d) Break through the clouds and continue above clouds

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## 03. Lower-than-standard temperature may lead to...

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

## 04. Moderate to severe turbulence has to be expected...

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- a) On the lee side of a mountain range when rotor clouds are present
- b) Below thick cloud layers on the windward side of a mountain range
- c) With the appearance of extended low stratus clouds (high fog)
- d) Overhead unbroken cloud layers

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

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- a) The scale 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 scale 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

## 06. 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

## 07. 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

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## 08. Which abbreviation is used for the term "visual flight rules"?

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

## 09. How will the sag of the pull rope change during descent?

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- a) It will remain unchanged
- b) It will increase
- c) It will change periodically
- d) It will decrease

## 10. What is the call sign of the surface movement control?

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- a) Earth
- b) Ground
- c) Tower
- d) Control

## 11. What does a cloud coverage of "FEW" mean in a METAR weather report?

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

## 12. 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) Aeronautical Information Service (AIS)

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**13. What type of turbulence is typically found close to the ground on the lee side during Foehn conditions?**

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- a) Clear-air turbulence (CAT)
- b) Turbulence in rotors
- c) Inversion turbulence
- d) Thermal turbulence

**14. 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

**15. In case of damage of the hull of a gas balloon, repairs have to be done by a certified Approved Aeronautical Workshop when exceeding a length of:**

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- a) 1.0 m
- b) 2.0 m
- c) 0.5 m
- d) 5.0 m

**16. How many satellites are necessary for a precise and verified three-dimensional determination of the position?**

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- a) Four
- b) Five
- c) Two
- d) Three

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## 17. What is the difference between a gas balloon at or below maximum differential pressure during climb?

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- a) The balloon at maximum differential pressure climbs with constant rate to unlimited height
- b) The balloon below maximum differential pressure climbs with constant rate up to maximum differential pressure height
- c) The balloon below maximum differential pressure climbs with constant rate to unlimited height
- d) The balloon at maximum differential pressure climbs with constant rate up to maximum differential pressure height

## 18. 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

## 19. 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

## 20. 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

## 21. With pressure and temperature given, any gas being heavier or lighter than air depends on what?

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- a) On the content of water vapour in the gas
- b) On the mean kinetic energy of the molecules
- c) On the number of gas molecules
- d) On the molecule mass of the gas

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## 22. 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

## 23. How do volume, density and temperature change when a gas is being compressed?

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- a) Volume decreases, density increases, temperature increases
- b) Volume decreases, density increases, temperature decreases
- c) Volume increases, density decreases, temperature decreases
- d) Volume decreases, density decreases, temperature decreases

## 24. What ground features should preferably be used for orientation during visual flight?

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- a) Power lines
- b) Rivers, railroads, highways
- c) Border lines
- d) Farm tracks and creeks

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

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

## 26. What is the approximate speed of electromagnetic wave propagation?

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

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## 27. 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

## 28. What wind conditions can be expected in areas showing large distances between isobars?

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- a) Formation of local wind systems with strong prevailing westerly winds
- b) Strong prevailing westerly winds with rapid veering
- c) Variable winds, formation of local wind systems
- d) Strong prevailing easterly winds with rapid backing

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

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

## 30. The vertical extent of air with pressure changing by 1% with 80 m difference in height is referred to as ...

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- a) Unstable
- b) Homogeneous
- c) Stable
- d) Inhomogeneous

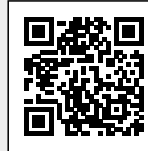
## 31. What does a readability of 5 indicate?

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- 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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## 32. What has to be expected during descent above a heated water surface?

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

## 33. 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) Four times the previous value
- c) Half the previous value
- d) A quarter of the previous value

## 34. The minimum flight visibility at 5000 ft MSL in airspace B for VFR flights is...

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

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

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- 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)

## 36. 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

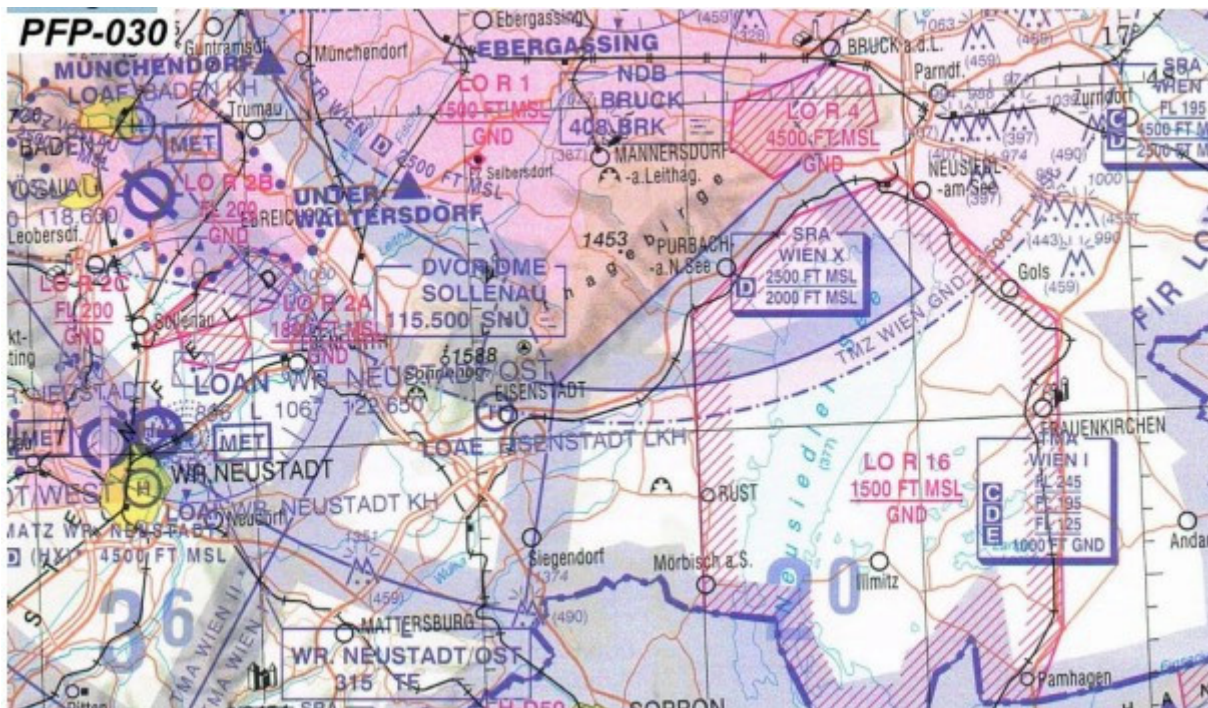
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## 37. The upper limit of LO R 4 equals... See annex (PPF-030)



- a) 1500 ft MSL
- b) 1500 ft AGL
- c) 4500 ft MSL
- d) 4500 ft AGL

## 38. The term "ceiling" is defined as the...

- a) Height of the base of the highest layer of clouds covering more than half of the sky below 20000 ft
- b) Height of the base of the lowest layer of clouds covering more than half of the sky below 10000 ft
- c) Altitude of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft
- d) Height of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft

## 39. What is the purpose of "interception lines" in visual navigation?

- a) They are used as easily recognizable guidance upon a possible loss of orientation
- b) To visualize the range limitation from the departure aerodrome
- c) They help to continue the flight when flight visibility drops below VFR minima
- d) To mark the next available en-route airport during the flight

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## 40. 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

## 41. What is the relationship between pressure and volume of a dry gas at constant temperature?

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- a) The volume increases by a factor of 4 with double pressure
- b) The volume is inversely proportional to pressure
- c) The ratio between pressure and volume is constant
- d) The volume increases proportional with pressure

## 42. What process results in the formation of "advection fog"?

---

- a) Warm, moist air is moved across cold ground areas
- b) Cold, moist air is being moved across warm ground areas
- c) Prolonged radiation during nights clear of clouds
- d) Cold, moist air mixes with warm, moist air

## 43. How do dew point and relative humidity change with decreasing temperature?

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- a) Dew point increases, relative humidity decreases
- b) Dew point remains constant, relative humidity decreases
- c) Dew point remains constant, relative humidity increases
- d) Dew point decreases, relative humidity increases

## 44. At which height the load carrying capability of a gas balloon is reduced by approximately 50% compared to MSL?

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- a) At 6500 m
- b) At 11000 m
- c) At 18000 m
- d) At 1500 m

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**45. 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

**46. 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

**47. What is the percentage of nitrogen in the atmosphere?**

---

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

**48. The rotational axis of the Earth runs through the...**

---

- a) Geographic North Pole and on the geographic South Pole
- b) Magnetic north pole and on the magnetic south pole
- c) Geographic North Pole and on the magnetic south pole
- d) Magnetic north pole and on the geographic South Pole

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

---

- 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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**50. During a flight in colder-than-ISA air the indicated altitude is...**

---

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

**51. 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

**52. The density of helium gas under standard conditions is:**

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- a) 0,2 kg / m<sup>3</sup>
- b) 2 kg / m<sup>3</sup>
- c) 0,02 g / m<sup>3</sup>
- d) 0,2 g / m<sup>3</sup>

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

---

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

**54. 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

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**55. Where can the type of restriction for a restricted airspace be found?**

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- a) ICAO chart 1:500000
- b) NOTAM
- c) AIC
- d) AIP

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**56. The purpose of the drag lines of the parachute is ...**

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- a) To transfer the carrying force of the balloon in the top opening area
- b) To transfer the force from the pull rope to the parachute
- c) To keep the parachute in the center of the top opening
- d) To transfer the force from the pull rope to the free-balloon hull

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**57. What is the best combination of traits with respect to the individual attitude and behaviour for a pilot?**

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- a) Extroverted - stable
- b) Introverted - unstable
- c) Introverted - stable
- d) Extroverted - unstable

---

**58. What is the minimum flight visibility in airspace "E" for an aircraft operating under VFR at FL75?**

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

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**59. 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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**60. The directional information "12 o'clock" is correctly transmitted as...**

---

- a) Twelve o'clock
- b) One two
- c) One two hundred
- d) One two o'clock

**61. 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

**62. What factors are required for the formation of precipitation in clouds?**

---

- a) High humidity and high temperatures
- b) The presence of an inversion layer
- c) Calm winds and intensive sunlight insolation
- d) Moderate to strong updrafts

**63. How does the norm height of a gas balloon with maximum differential pressure change by dropping ballast?**

---

- a) It increases by 8 m when total mass is reduced by 10%
- b) It increases by 80 m when total mass is reduced by 1%
- c) It decreases by 8 m when total mass is reduced by 10%
- d) It decreases by 80 m when total mass is reduced by 1%

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

---

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

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## 65. A true altitude is...

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

## 66. 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

## 67. What visual flight conditions can be expected within the warm sector of a polar front low during summer time?

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- a) Visibility less than 1000 m, cloud-covered ground
- b) Moderate to good visibility, scattered clouds
- c) Moderate visibility, heavy showers and thunderstorms
- d) Good visibility, some isolated high clouds

## 68. 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 %

## 69. The altimeter's reference scale is set to airfield pressure (QFE). What indication is shown during the flight?

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- a) Airfield elevation
- b) Pressure altitude
- c) Altitude above MSL
- d) Height above airfield

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## 70. When do you expect wind shear?

---

- 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

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## Response Scheme

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

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