

# Exam simulation

Quiz BPL Gas - Balloon Pilot License - Aircraft General Knowledge



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STUDENT NAME:

DATE AND TIME:

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

- 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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**02. What does the abbreviation "FIR" stand for?**

- a) Flight integrity receiver
- b) Flow integrity required
- c) Flow information radar
- d) Flight information region

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

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

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

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

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**05. QFE is the...**

- a) Altitude above the reference pressure level 1013.25 hPa.
- b) Magnetic bearing to a station.
- c) Barometric pressure adjusted to sea level, using the international standard atmosphere (ISA).
- d) Barometric pressure at a reference datum, typically the runway threshold of an airfield.

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## 06. "Foehn" conditions usually develop with...

- a) Instability, widespread air blown against a mountain ridge
- b) Stability, widespread air blown against a mountain ridge.
- c) Stability, high pressure area with calm wind.
- d) Instability, high pressure area with calm wind.

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## 07. The aerostatic lift corresponds to which force?

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

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

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

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## 09. With regard to gases, which statement is correct?

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

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**10. (For this question, please use annex PFP-062) According ICAO, what symbol indicates a civil airport (not international airport) with paved runway? Siehe Anlage 6**

- A
- B
- C
- D

PFP-062

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

**11. 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%.

**12. The saturated adiabatic lapse rate is...**

- a) Proportional to the dry adiabatic lapse rate
- b) Higher than the dry adiabatic lapse rate.
- c) Lower than the dry adiabatic lapse rate.
- d) Equal to the dry adiabatic lapse rate.

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**13. 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.

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**14. What is the function of the red blood cells (erythrocytes)?**

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

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**15. 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.

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**16. What ground features should preferably be used for orientation during visual flight?**

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

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**17. Under which conditions, no hazards should be expected for a balloon ride?**

- a) With high pressure areas before sunset
- b) With a warm front approaching
- c) With a cold front approaching
- d) Close to showers or thunderstorms

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## 18. Which is the purpose of the altimeter subscale?

- a) To reference the altimeter reading to a predetermined level such as mean sea level, aerodrome level or pressure level 1013.25 hPa
- b) To adjust the altimeter reading for non-standard temperature
- c) To set the reference level for the altitude decoder of the transponder
- d) To correct the altimeter reading for system errors

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

- 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

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## 20. What weather phenomena have to be expected around an upper-level trough?

- a) Formation of high stratus clouds, ground-covering cloud bases
- b) Calm weather, formation of lifted fog layers
- c) Development of showers and thunderstorms (Cb)
- d) Calm wind, forming of shallow cumulus clouds

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## 21. What does the abbreviation "HX" stand for?

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

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## 22. 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?

- a) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection is +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.

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**23. 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

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

- 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.

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**25. A flight level is a...**

- a) True altitude
- b) Density altitude.
- c) Pressure altitude.
- d) Altitude above ground.

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**26. What is the correct designation of the frequency band from 118.000 to 136.975 MHz used for voice communication?**

- a) VHF
- b) MF
- c) MF
- d) HF

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**27. What information is provided in the part "AD" of the AIP?**

- 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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## 28. What does the abbreviation "H24" stand for?

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

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## 29. During buildup of a gas balloon, sacks with sand are hooked up. The end of the hooks should be directed ...

- a) Parallel to net path
- b) Outside
- c) Inside
- d) Perpendicular to net path

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

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

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## 31. Which altitude is displayed on the altimeter when set to a specific QFE?

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

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## 32. The term "tropopause" is defined as...

- a) The layer above the troposphere showing an increasing temperature
- b) The height above which the temperature starts to decrease.
- c) The boundary area between the mesosphere and the stratosphere
- d) The boundary area between the troposphere and the stratosphere.

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**33. 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

**34. What is the correct way of acknowledging "You are now entering airspace Delta"?**

- a) Entering
- b) Airspace Delta
- c) Wilco
- d) Roger

**35. Which of the human senses is most influenced by hypoxia?**

- a) The tactile perception (sense of touch)
- b) The olfactory perception (smell)
- c) The visual perception (vision)
- d) The auditory perception (hearing)

**36. The measurement of altitude is based on the change of the...**

- a) Dynamic pressure.
- b) Static pressure.
- c) Differential pressure.
- d) Total pressure.

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

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

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

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

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**39. 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

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**40. Which of the following messages has the highest priority?**

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

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**41. Urgency messages are defined as...**

- a) Messages concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.
- b) Messages concerning urgent spare parts which are needed for a continuation of flight and which need to be ordered in advance.
- c) Messages concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- d) Information concerning the apron personell and which imply an imminent danger to landing aircraft.

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**42. A vertical speed indicator connected to a too big equalizing tank results in...**

- a) Mechanical overload
- b) No indication
- c) Indication too low
- d) Indication too high

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## 43. What is the percentage of oxygen in the atmosphere at 6000 ft?

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

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## 44. Before buildup, the buildup team has to be informed about correct behaviour at sudden critical situations how?

- a) Only at gusty winds
- b) Twice
- c) At least two days before
- d) By the balloon pilot

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## 45. Which wind system may be dangerous for balloon rides in the Alps?

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

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## 46. What is the purpose of the signal square at an aerodrome?

- a) It is a specially marked area to pick up or drop towing objects
- b) It is an illuminated area on which search and rescue and fire fighting vehicles are placed
- c) It contains special symbols to indicate the conditions at the aerodrome visually to over-flying aircraft
- d) Aircraft taxi to this square to get light signals for taxi and take-off clearance

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## 47. A vertical speed indicator measures the difference between...

- a) Instantaneous total pressure and previous total pressure.
- b) Total pressure and static pressure
- c) Dynamic pressure and total pressure.
- d) Instantaneous static pressure and previous static pressure.

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## 48. The term "aerodrome elevation" is defined as...

- a) The highest point of the landing area
- b) The average value of the height of the manoeuvring area.
- c) The highest point of the apron
- d) The lowest point of the landing area.

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## 49. With respect to aircraft accident and incident investigation, what are the three categories regarding aircraft occurrences?

- a) Incident Serious incident Accident
- b) Event Serious event Accident
- c) Happening Event Serious event
- d) Event Crash Disaster

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

- 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

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## 51. Where has the ballast aboard a gas balloon to be stored during cruise?

- a) Inside the basket
- b) Below the net ending ropes
- c) At the outside wall of the basket
- d) Inside the tow shield

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## 52. 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?

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

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**53. Above the friction layer, with a prevailing pressure gradient, the wind direction is...**

- 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 isohypsies.

**54. The vertical speed indicator measures the difference of pressure between...**

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

**55. 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)**

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

**56. Below maximum differential pressure of a gas balloon, temperature increase of the carrying gas by 1K results in:**

- a) Volume decrease by 0,4%
- b) Volume increase by 0,4%
- c) Volume increase by 4%
- d) Volume decrease by 4%

**57. 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?**

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

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

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

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**59. In what different ways can a risk be handled appropriately?**

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

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**60. What change results from an increase in temperature of the carrying gas and of the environmental air at a gas balloon at maximum differential pressure?**

- a) The load capability decreases by 4% per K temperature change.
- b) The load capability increases by 4% per K temperature change.
- c) The load capability increases by 0,4% per K temperature change.
- d) The load capability decreases by 0,4% per K temperature change.

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**61. The emergency opening of a gas balloon is located where?**

- a) To the side of the appendix
- b) At the upper pole
- c) At the equator
- d) To the side of the valve

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

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

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**64. A cross-country flight is made using the ICAO 1 : 500.000 aeronautical chart. An overflight crosscheck shows that a distance of 6 cm in the chart has been passed within 9 minutes. After how many more minutes, the overflight of another waypoint at a chart distance of additional 4 cm can be expected?**

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

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**65. What should be considered regarding a scheduled flight over water, when land cannot be reached in case of an emergency landing?**

- a) Transponder code 7600 has to be set during the whole flight
- b) Contact to the nearest ATC shall consist during the whole flight
- c) The flight plan has to contain the exact waypoints
- d) For all passengers there must be life jackets or lifeboats present

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

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

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

- 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

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## 68. What is the purpose of the semi-circular rule?

- 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

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## 69. 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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## 70. Which factor can lead to human error?

- 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

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## Response Scheme

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

01: **B**

02: **D**

03: **D**

04: **D**

05: **D**

06: **B**

07: **B**

08: **D**

09: **B**

10: **D**

11: **B**

12: **C**

13: **A**

14: **A**

15: **A**

16: **B**

17: **A**

18: **A**

19: **C**

20: **C**

21: **D**

22: **D**

23: **B**

24: **B**

25: **C**

26: **A**

27: **B**

28: **A**

29: **B**

30: **D**

31: **D**

32: **D**

33: **D**

34: **D**

35: **C**

36: **B**

37: **D**

38: **C**

39: **B**

40: **B**

41: **C**

42: **D**

43: **B**

44: **D**

45: **C**

46: **C**

47: **D**

48: **A**

49: **A**

50: **A**

51: **A**

52: **D**

53: **C**

54: **D**

55: **B**

56: **B**

57: **B**

58: **A**

59: **D**

60: **D**

61: **A**

62: **C**

63: **A**

64: **B**

65: **D**

66: **C**

67: **C**

68: **C**

69: **A**

70: **C**

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## Response form

Use this form to mark your answers

01: \_\_\_\_\_

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