

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

STUDENT NAME:

DATE AND TIME:

## 01. When do you expect wind shear?

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

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

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

## 03. (For this question, please use annex PFP-061) According ICAO, what symbol indicates a group of unlighted obstacles?

- A 
- B 
- C 
- D 

PFP-061

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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

**04. The shortest distance between two points on Earth is represented by a part of...**

---

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

**05. What phrase is used by a pilot if a transmission is to be answered with "yes"?**

---

- a) Affirmative
- b) Affirm
- c) Roger
- d) Yes

**06. During a flight at FL 80, the altimeter setting has to be...**

---

- a) Local QFE
- b) 1013.25 hPa
- c) 1030.25 hPa
- d) Local QNH

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

---

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

**08. Aerostatic lift, amongst other factors, depends on...**

---

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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

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

---

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

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

---

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

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

---

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

## 12. The measurement of altitude is based on the change of the...

---

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

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

---

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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

## 14. 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

## 15. The main burner is fed by which phase?

---

- a) By the low-pressure phase
- b) By the gas phase
- c) By the plasma phase
- d) By the liquid phase

## 16. 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

## 17. 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

## 18. 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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

## 19. The maximum number of passengers can be found ...

---

- a) In the certificate of registration
- b) In the operating handbook
- c) In the Flight Log book
- d) In the airworthiness certificate

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

---

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

## 21. When air masses meet each other head on, how is this referred to and what air movements will follow?

---

- a) Divergence resulting in air being lifted
- b) Convergence resulting in air being lifted
- c) Convergence resulting in sinking air
- d) Divergence resulting in sinking air

## 22. "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

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

---

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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

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

---

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

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

---

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

**26. At time of take-off, ground wind speed is 2 m/s. Along take-off flight path, at a distance of 320 m obstacles erect up to 30 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) 1.5 m/s
- c) 2 m/s
- d) 0.5 m/s

**27. What is the meaning of an area marked as "TMZ"?**

---

- a) Touring Motorglider Zone
- b) Traffic Management Zone
- c) Transponder Mandatory Zone
- d) Transportation Management Zone

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

---

- 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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

## 29. What has to be considered before a balloon ride across water surfaces?

---

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

## 30. Cold air inflow in high tropospheric layers may result in...

---

- a) Stabilisation and calm weather
- b) Showers and thunderstorms
- c) Calm weather and cloud dissipation
- d) Frontal weather

## 31. Point A on the Earth's surface lies exactly on the parallel of latitude of 47°50'27"N. Which point is exactly 240 NM north of A?

---

- a) 53°50'27"N
- b) 49°50'27"N
- c) 43°50'27"N
- d) 51°50'27"N

## 32. What does the abbreviation "H24" stand for?

---

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

## 33. What is the meaning of the phrase "Correction"?

---

- a) Permission for proposed action is granted
- b) An error has been made in this transmission. The correct version is...
- c) I have received all of your last transmission
- d) I understand your message and will comply with it

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

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

---

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

## 35. Distress messages are messages...

---

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

## 36. The term 'True Course' (TC) is defined as...

---

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

## 37. 5500 m equal...

---

- a) 7500 ft
- b) 18000 ft
- c) 10000 ft
- d) 30000 ft

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

---

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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

**39. How does air temperature change in ISA from MSL to approx. 10000 m height?**

---

- a) From +30° to -40°C
- b) From -15° to 50°C
- c) From +15° to -50°C
- d) From +20° to -40°C

**40. During a flight in an air mass with a temperature equal to ISA and the QNH set correctly, the indicated altitude is...**

---

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

**41. 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

**42. 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

**43. Which transponder code has to be set unrequested during an emergency?**

---

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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

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

---

- 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

**45. Which statement is correct with regard to the short-term memory?**

---

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

**46. What is the difference in latitude between A ( $12^{\circ}53'30''N$ ) and B ( $07^{\circ}34'30''S$ )?**

---

- a)  $05^{\circ}19'00''$
- b)  $20^{\circ}28'00''$
- c)  $20.28^{\circ}$
- d)  $05.19^{\circ}$

**47. The boiling point of propane gas at atmospheric conditions is:**

---

- a)  $+ 5^{\circ}C$
- b)  $- 42^{\circ}C$
- c)  $- 23^{\circ}C$
- d)  $0^{\circ}C$

**48. Which gas is heavier than air?**

---

- a) Hydrogen
- b) Propane
- c) Helium
- d) Illuminating gas

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

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

---

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

**50. Who provides search and rescue service?**

---

- a) Only military organisations
- b) Both military and civil organisations
- c) Only civil organisations
- d) International approved organisations

**51. At equilibrium the inner overpressure of a free balloon is highest at:**

---

- a) At the lower opening
- b) The upper pole
- c) At the center of the hull
- d) At the equator

**52. What does the abbreviation "HX" stand for?**

---

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

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

---

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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

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

---

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

## 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 is the difference in time when the sun moves 20° of longitude?

---

- a) 1:00 h
- b) 1:20 h
- c) 0:20 h
- d) 0:40 h

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

---

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

## 58. During setup of a hot-air balloon, the hull is damaged with a hole with a size of 1.50 m x 1.00 m. Is Take-Off permitted?

---

- a) Yes, if all passengers agree
- b) Yes, if permitted by the operating handbook
- c) No, the hull has to be repaired first
- d) Yes, if loading is reduced

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

---

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

---

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

---

**60. What weather conditions can be expected in high pressure areas during winter?**

---

- a) Squall lines and thunderstorms
- b) Changing weather with passing of frontal lines
- c) Calm winds and widespread areas with high fog
- d) Calm weather and cloud dissipation, few high Cu

---

**61. 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

---

**62. An inversion is a layer ...**

---

- a) With increasing pressure with increasing height
- b) With increasing temperature with increasing height
- c) With constant temperature with increasing height
- d) With decreasing temperature with increasing height

---

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

---

- 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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

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

---

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

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

---

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

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

---

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

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

---

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

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

---

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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

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

---

- 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

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

---

- 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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

## Response Scheme

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

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

# Exam simulation

BPL Hot Air - Balloon Pilot License - Operational Procedures



QuizVds.it

## 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: _____		