

Exam simulation

Quiz BPL Hot Air - Balloon Pilot License - Navigation



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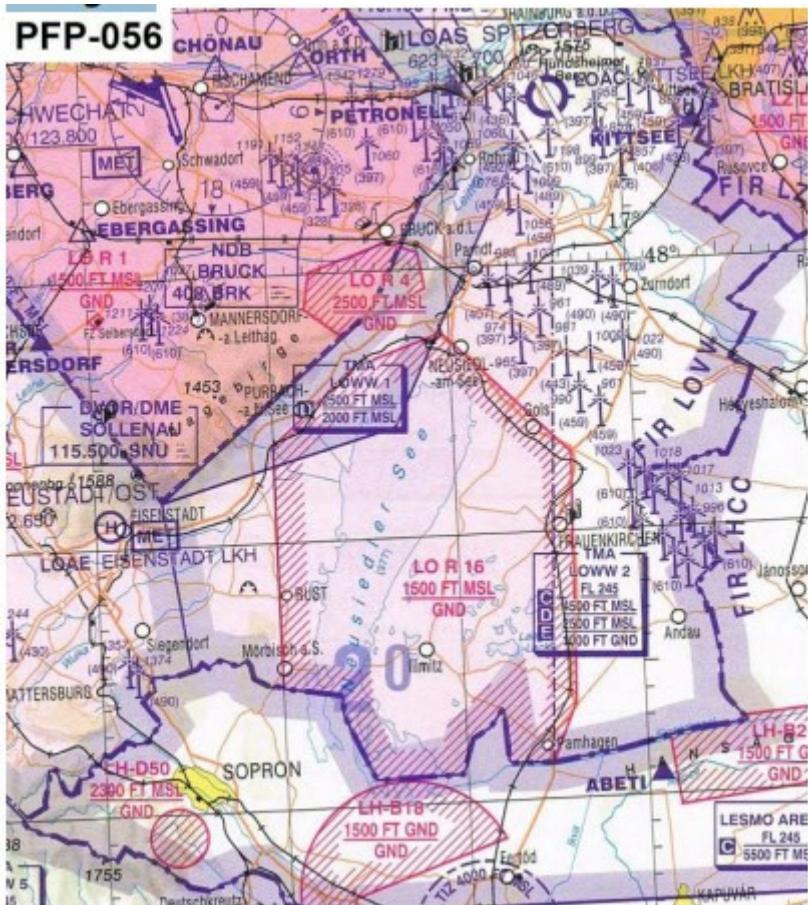
STUDENT NAME:

DATE AND TIME:

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

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

02. The upper limit of LO R 16 equals... See annex (PFP-056) Siehe Anlage 2



- a) FL150.
- b) 1.500 ft GND.
- c) 1 500 ft MSL.
- d) 1 500 m MSL.

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

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

04. During a flight, a flight plan can be filed at the...

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

05. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PFP-024) Siehe Anlage 4

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

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

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

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

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

08. 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

09. Which of the following symptoms may indicate hypoxia?

- a) Blue marks all over the body
- b) Blue discolouration of lips and fingernails
- c) Muscle cramps in the upper body area
- d) Joint pain in knees and feet

10. Light turbulence always has to be expected...

- a) When entering inversions.
- b) Above cumulus clouds due to thermal convection.
- c) Below cumulus clouds due to thermal convection.
- d) Below stratiform clouds in medium layers.

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11. At high altitude, the complete heating system of a hot-air balloon fails. What maximum rate of descent has to be expected upon reaching ground?

- a) Approximatley 2.5 m/s
- b) Approximatley 4.5 m/s
- c) Approximatley 6.5 m/s
- d) Approximatley 2.5 m/s

12. Which information from a ground station does not require readback?

- a) SSR-Code
- b) Wind
- c) Altitude
- d) Runway in use

13. 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

14. The term 'magnetic course' (MC) is defined as...

- 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.

15. The majority of aviation accidents are caused by...

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

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16. What is the difference in time when the sun moves 10° of longitude?

- a) 0:04 h
- b) 0:40 h
- c) 0:30 h
- d) 1:00 h

17. 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

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

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

19. 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.

20. A risk factor for decompression sickness is...

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

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21. An aerodrome beacon (ABN) is a...

- 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.

22. The hull of a hot-air balloon is made up by which material?

- a) Synthetic fabric
- b) Silk fabric
- c) Linen fabric
- d) Cotton fabric

23. A flight level is a...

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

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24. What cloud type does the picture show? See figure (MET-002). Siehe Anlage 2



- a) Altus
- b) Stratus
- c) Cumulus
- d) Cirrus

25. What is the consequence if the pressure at the burner valve is lower than 0.28 MPa (lower than 2.8 bar)?

- a) Take-off is prohibited.
- b) The gas container should be heated by the flame.
- c) The heating system may be damaged.
- d) The pressure in the gas container may be increased by use of acetylene.

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26. Which transponder code indicates a loss of radio communication?

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

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

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

28. 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.

29. Urgency messages are messages...

- 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.

30. 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.

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31. Which of the following statements is correct?

- a) The density of hull air is lower with decreasing environmental pressure
- b) The density of hull air is higher with increasing environmental pressure
- c) The density of hull air is lower than environmental air only if the hull temperature is lower than environmental temperature
- d) The density of hull air is lower than environmental air only if the hull temperature is higher than environmental temperature

32. What is an indication for a macho attitude?

- 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

33. 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.

34. What has to be considered when entering an RMZ?

- 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

35. According ISA, what is the density of air at MSL?

- a) 1.225 g/m³
- b) 1225 kg/m³
- c) 12.25 kg/m³
- d) 1.225 kg/m³

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36. 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

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

- 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

38. 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

39. 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

40. What is the meaning of the phrase "Approved"?

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

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41. 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

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

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

43. 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.

44. 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

45. 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

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46. Regarding the communication model, how can the use of the same code during radio communication be ensured?

- a) By the use of proper headsets
- b) By a particular frequency allocation
- c) By the use of radio phraseology
- d) By using radios certified for aviation use only

47. During buildup of a hot-air balloon, who has to be equipped with tight, flame resistant gloves and clothing covering all body parts?

- a) Only the balloon pilot
- b) Balloon pilot, buildup team and spectators
- c) Only the buildup team
- d) The balloon pilot and the buildup team

48. An inversion layer close to the ground can be caused by...

- a) Ground cooling during the night.
- b) Large-scale lifting of air.
- c) Thickening of clouds in medium layers
- d) Intensifying and gusting winds.

49. Given: TC: 179°; WCA: -12°; VAR: 004° E; DEV: +002° What are MH and MC?

- a) MH: 167°. MC: 175°.
- b) MH: 167°. MC: 161°.
- c) MH: 163°. MC: 175°.
- d) MH: 163°. MC: 161°.

50. 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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51. The standard state of gases refers to which temperature?

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

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

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

53. What impact may rain have on operation of a hot-air balloon?

- a) Total mass and gas consumption increase
- b) Rain drops hitting on the hull reduce the lift force.
- c) The hull is deformed, which reduces lift.
- d) The hull is cooled, resulting in less gas consumption.

54. What weather conditions may be expected during conditionally unstable conditions?

- a) Towering cumulus, isolated showers of rain or thunderstorms
- b) Layered clouds up to high levels, prolonged rain or snow
- c) Shallow cumulus clouds with base at medium levels
- d) Sky clear of clouds, sunshine, low winds

55. The force resulting from the (positive) difference from load-bearing capacity and weight force, is referred to as:

- a) Upper force
- b) Lift force
- c) Load force
- d) Climb force

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56. Which of the following factors affects the reception of VHF transmissions?

- a) Altitude
- b) Twilight error
- c) Shoreline effect
- d) Height of ionosphere

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

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

58. The saturated adiabatic lapse rate should be assumed with a mean value of:

- a) 2° C / 1000 ft.
- b) 1,0° C / 100 m.
- c) 0,6° C / 100 m.
- d) 0° C / 100 m.

59. 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

60. How can you obtain meteorological information concerning airports during a crosscountry flight?

- a) AIRMET
- b) VOLMET
- c) METAR
- d) GAMET

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61. Under which conditions "back side weather" ("Rückseitenwetter") can be expected?

- a) During Foehn at the lee side
- b) Before passing of an occlusion
- c) After passing of a warm front
- d) After passing of a cold front

62. The stretch-out of the envelope of a hot-air balloon should be made:

- a) To the lee side of the basket
- b) To the luv side of the basket
- c) To the sunward side of the basket
- d) To the sun-averted side of the basket

63. Liquification of propane gas results in a reduction in volume to what fraction of the gas volume?

- a) 1/160
- b) 1/260
- c) 1/360
- d) 1/60

64. What are primary criteria for selecting a landing site? 1. Obstacle situation 2. Elevation of the site 3. Strength of surface wind

- a) 2 and 3
- b) 1, 2 and 3
- c) 1 and 2
- d) 1 and 3

65. 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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66. In a METAR, "heavy rain" is designated by the identifier...

- a) RA
- b) .+SHRA.
- c) .+RA
- d) SHRA.

67. What process results in the formation of "orographic fog" ("hill fog")?

- a) Prolonged radiation during nights clear of clouds
- b) Warm, moist air is moved across a hill or a mountain range
- c) Evaporation from warm, moist ground area into very cold air
- d) Cold, moist air mixes with warm, moist air

68. 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

- a) A, b, c, e, f
- b) D, f, g
- c) B, c, d, e, f, g
- d) A, b, e, g

69. What statement is correct with regard to the density of a gas?

- a) The density increases with increasing temperature and constant volume.
- b) The density decreases with decreasing volume and constant temperature.
- c) The density decreases with increasing temperature and constant volume.
- d) The density decreases with increasing temperature and constant pressure.

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

- 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: **B**

02: **C**

03: **D**

04: **C**

05: **D**

06: **D**

07: **B**

08: **B**

09: **B**

10: **C**

11: **C**

12: **B**

13: **C**

14: **D**

15: **A**

16: **B**

17: **C**

18: **D**

19: **D**

20: **A**

21: **D**

22: **A**

23: **C**

24: **C**

25: **A**

26: **B**

27: **D**

28: **D**

29: **B**

30: **B**

31: **D**

32: **D**

33: **C**

34: **C**

35: **D**

36: **A**

37: **C**

38: **A**

39: **B**

40: **B**

41: **C**

42: **D**

43: **B**

44: **D**

45: **B**

46: **C**

47: **D**

48: **A**

49: **C**

50: **B**

51: **C**

52: **B**

53: **A**

54: **A**

55: **D**

56: **A**

57: **D**

58: **C**

59: **C**

60: **B**

61: **D**

62: **A**

63: **B**

64: **D**

65: **B**

66: **C**

67: **B**

68: **A**

69: **D**

70: **D**

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Response form

Use this form to mark your answers

01: _____

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