

Exam simulation

BPL Hot-Air Balloon Pilot Licence, 120 questions on 120 minutes!



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STUDENT NAME:

DATE AND TIME:

01. What effect has an increase in air temperature inside the hull of a hot air balloon by a given difference in temperature?

- a) The increase in load carrying capacity increases with height
- b) The increase in load carrying capacity decreases with height
- c) The increase in rate of climb increases with height
- d) The reduction in sink rate increases with height

02. 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

03. How should the cold-air inflation fan be positioned for efficient inflation of a hot-air balloon envelope?

- a) With as small distance to the balloon opening as possible
- b) By evenly swiveling for better air spreading
- c) So that its airflow fills the balloon mouth effectively
- d) By placing the blower inside the hull

04. 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

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05. Which distances to clouds have to be maintained during a VFR flight in airspaces C, D and E?

- a) 1000 m horizontally, 300 m vertically
- b) 1000 m horizontally, 1500 ft vertically
- c) 1500 m horizontally, 1000 m vertically
- d) 1500 m horizontally, 1000 ft vertically

06. 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

07. Wake turbulence is caused by...

- a) Wind shear at the wingtip of an aerofoil
- b) Pressure compensation at the wingtip of an aerofoil
- c) Jet blast behind a turbine engine
- d) Turbulence at the downwind side of a mountain range

08. 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

09. 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

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10. 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

11. What must be considered for cross-border flights?

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

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

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

13. 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

14. Which parts of a hot-air balloon provide protection for the basket during landing?

- a) Wheels
- b) Rubber pads
- c) Wearing strips
- d) Steel runners

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15. Which of the following qualities are influenced by stress? 1. Attention 2. Concentration 3. Responsiveness 4. Memory

- a) 2, 4
- b) 1
- c) 1, 2, 3, 4
- d) 1, 2, 3

16. The character of an air mass is given by what properties?

- a) Wind speed and tropopause height
- b) Environmental lapse rate at origin
- c) Temperatures at origin and present region
- d) Region of origin and track during movement

17. What does a cloud coverage of "SCT" mean in a METAR weather report?

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

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

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

PFP-063

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

19. 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

20. What does a readability of 1 indicate?

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

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

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

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. What action has to be taken by the pilot of a hot-air balloon in case of fire on the ground?
First action is to ...**

- a) Make an emergency call via radio
- b) Leave from the area surrounding the burner
- c) Close the valves of the gas containers
- d) Engage the fire extinguishers

24. 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

25. For a hot-air balloon at the same ambient pressure, envelope volume and internal air temperature, what happens to its lifting capacity when the outside air temperature decreases?

- a) The lifting capacity decreases because the surrounding air becomes less dense
- b) The lifting capacity increases because the surrounding air becomes denser
- c) The lifting capacity remains unchanged because ambient temperature has no effect
- d) The lifting capacity decreases because the heated air inside becomes heavier despite its unchanged temperature

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26. "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

27. Why has a secondary ignition source be available during a ride with a hot-air balloon?

- a) As an emergency lighting during night
- b) To check seals of hose connections during darkness
- c) To provide light signals by a camping fire after an emergency landing
- d) To re-ignite the burner or pilot flames after flameout

28. Why should a liquid gas bottle only be filled to 80% of its volume?

- a) Because temperature would get too high
- b) Because it would get too heavy otherwise
- c) To provide space for temperature-induced expansion
- d) To provide space for expansion in case of external cooling

29. 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

30. 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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31. Aerostatic lift, amongst other factors, depends on...

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

32. The altimeter is switched from local QNH to 1013.25 hPa...

- a) When climbing above the transition altitude
- b) At 4000 ft
- c) At the decision height
- d) When descending below FL 100

33. A balloon travels 3 NM in 10 minutes. At the same constant ground speed, how long will it take to cover a remaining distance of 18 NM?

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

34. 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

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

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

37. What conditions are mandatory for the formation of thermal thunderstorms?

- a) Absolutely stable atmosphere, high temperature and high humidity
- b) Absolutely stable atmosphere, high temperature and low humidity
- c) Conditionally unstable atmosphere, high temperature and high humidity
- d) Conditionally unstable atmosphere, low temperature and low humidity

38. What is the correct frequency for an initial distress message?

- a) FIS frequency
- b) Radar frequency
- c) Current frequency
- d) Emergency frequency

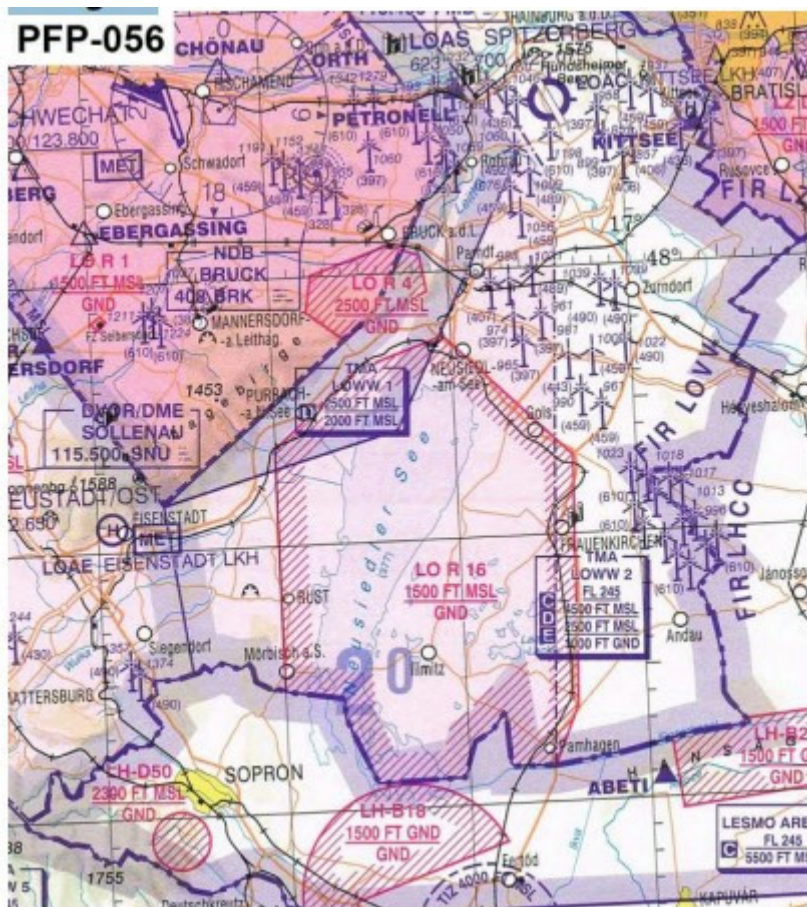
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39. The upper limit of LO R 16 equals... See annex (PFP-056)



- a) FL150
- b) 1500 ft GND
- c) 1500 ft MSL
- d) 1500 m MSL

40. Which process may result in an inversion layer at about 5000 ft (1500 m) height?

- a) Intensive sunlight insolation during a warm summer day
- b) Ground cooling by radiation during the night
- c) Advection of cool air in the upper troposphere
- d) Widespread descending air within a high pressure area

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41. What is the primary purpose of an aircraft accident investigation?

- a) To determine the guilty party and draw legal consequences
- b) To identify the reasons and work out safety recommendations
- c) To clarify questions of liability within the meaning of compensation for passengers
- d) To work for the public prosecutor and help to follow-up flight accidents

42. 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

43. 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

44. 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

45. What is the purpose of the sounding pipe valve?

- a) It allows pressure equalization during cruise at high altitude
- b) To indicate the volumetric filling limit
- c) It prevents air from entering the burner system
- d) For venting the liquid gas container bottle

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46. Which transponder code indicates a radio failure?

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

47. 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

48. 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

49. 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

50. 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

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51. What distance corresponds to one degree difference in latitude along any degree of longitude?

- a) 60 km
- b) 30 NM
- c) 1 NM
- d) 60 NM

52. 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

53. The movement of air flowing together is called...

- a) Subsidence
- b) Convergence
- c) Divergence
- d) Confluence

54. London (EGLL) is located at 000° 10'W, Cardiff (EGFF) at 003° 44'W. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between London and Cardiff?

- a) In London the sunrise and sunset are about 4 minutes later than in Cardiff
- b) In London the sunrise and sunset are about 14 minutes earlier than in Cardiff
- c) In London the sunrise is 4 minutes later and sunset is 4 minutes earlier than in Cardiff
- d) In London the sunrise is 14 minutes earlier and sunset is 14 minutes later than in Cardiff

55. 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

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56. 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

57. What is the percentage of nitrogen in the atmosphere?

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

58. 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

59. What is the usual direction of movement of a polar front low?

- a) To the northeast during winter, to the southeast during summer
- b) Parallel to the warm-sector isobars
- c) To the northwest during winter, to the southwest during summer
- d) Parallel to the warm front line to the south

60. 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

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61. The ratio between air pressures at different heights is referred to as:

- a) Pressure number
- b) Height value
- c) Height ratio
- d) Height number

62. Under Article 33 of the Chicago Convention, on what basis are pilot licences recognised by other Contracting States for international navigation?

- a) Every ICAO-compliant licence automatically permits flying any aircraft registered in any country
- b) They are issued or rendered valid by the State of aircraft registry, and the requirements meet or exceed the applicable ICAO minimum standards
- c) Recognition is independent of the State of aircraft registry and the issuing standards
- d) A licence issued by one Contracting State can never be recognised by another

63. With regard to gases, which statement is correct?

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

64. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL110?

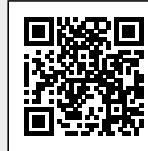
- a) 1500 m
- b) 3000 m
- c) 8000 m
- d) 5000 m

65. 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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66. Which abbreviation is used for the term "obstacle"?

- a) OBS
- b) OBST
- c) OBTC
- d) OST

67. A boundary between a cold polar air mass and a warm subtropical air mass showing no horizontal displacement is called...

- a) Warm front
- b) Occluded front
- c) Cold front
- d) Stationary front

68. What cause may result in a reduction of volume of a free balloon?

- a) Reduction in mass
- b) A gust
- c) Cooling of environment air
- d) Increase in hull temperature

69. 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

70. With web-less balloon hulls, the load is connected to:

- a) The load belt
- b) The towing rope
- c) The pull-rope
- d) The basket rope

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71. 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 %

72. 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

73. 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

74. From which altitude on does the body usually react to the decreasing atmospheric pressure?

- a) 7000 feet
- b) 12000 feet
- c) 2000 feet
- d) 10000 feet

75. Measured pressure distribution in MSL and corresponding frontal systems are displayed by the...

- a) Significant Weather Chart (SWC)
- b) Prognostic chart
- c) Surface weather chart
- d) Hypsometric chart

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76. What temperature is specified for gases under the IUPAC definition of standard temperature and pressure (STP, with a pressure of 100 kPa)?

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

77. 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

78. According to SERA.14083(c), what is the standard procedure for a VFR flight in class D after attempts to restore radio communication have failed?

- a) Continue to the planned destination without notifying ATS, provided the last clearance is followed
- b) Select 7500 and climb above 5000 feet regardless of weather
- c) Select 7600 if equipped, remain in VMC, land at the nearest suitable aerodrome and report arrival to the appropriate ATS unit by the most expeditious means
- d) Leave by the shortest route and continue the flight without reporting arrival

79. 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

80. Damages to the hot-air balloon hull fabric are most critical in which area?

- a) In the lower third
- b) At the top area
- c) At the equator
- d) In the apron area

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81. Information about operational limits, loading and performance about an aircraft can be taken from which document?

- a) Airworthiness certificate
- b) Operating handbook
- c) Certificate of registration
- d) Flight Log book

82. A wind shear is...

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

83. What has to be expected when diving into an inversion layer from above?

- a) Rate of descent increases
- b) Rate of descent decreases
- c) Sudden drop onto the ground
- d) Uncontrollable oscillation of the basket

84. Visual illusions are mostly caused by...

- a) Misinterpretation of the brain
- b) Binocular vision
- c) Rapid eye movements
- d) Colour blindness

85. 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

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86. 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

87. The basket ropes of a hot-air balloon are usually fixed to ...

- a) The burner
- b) The burner cage
- c) To the scoop
- d) The Nomex apron

88. The Empty Mass of a gas balloon includes:

- a) Ballast packages, basket, hull, valve and towing rope
- b) Basket, burner, ballast packages, hull, net and towing rope
- c) Basket, basket ring, valve, net, hull and towing rope
- d) Burner, ballast packages, instruments, net and towing rope

89. A balloon pilot decides to use one or more separate gas containers for initial heating during buildup. To ensure a safe buildup ...

- a) To expedite take-off, the gas containers have to be stored outside
- b) The gas containers have to be fixed safely inside the basket
- c) No separate gas containers are allowed during buildup
- d) Two gas containers (one inside, one outside) are to be used

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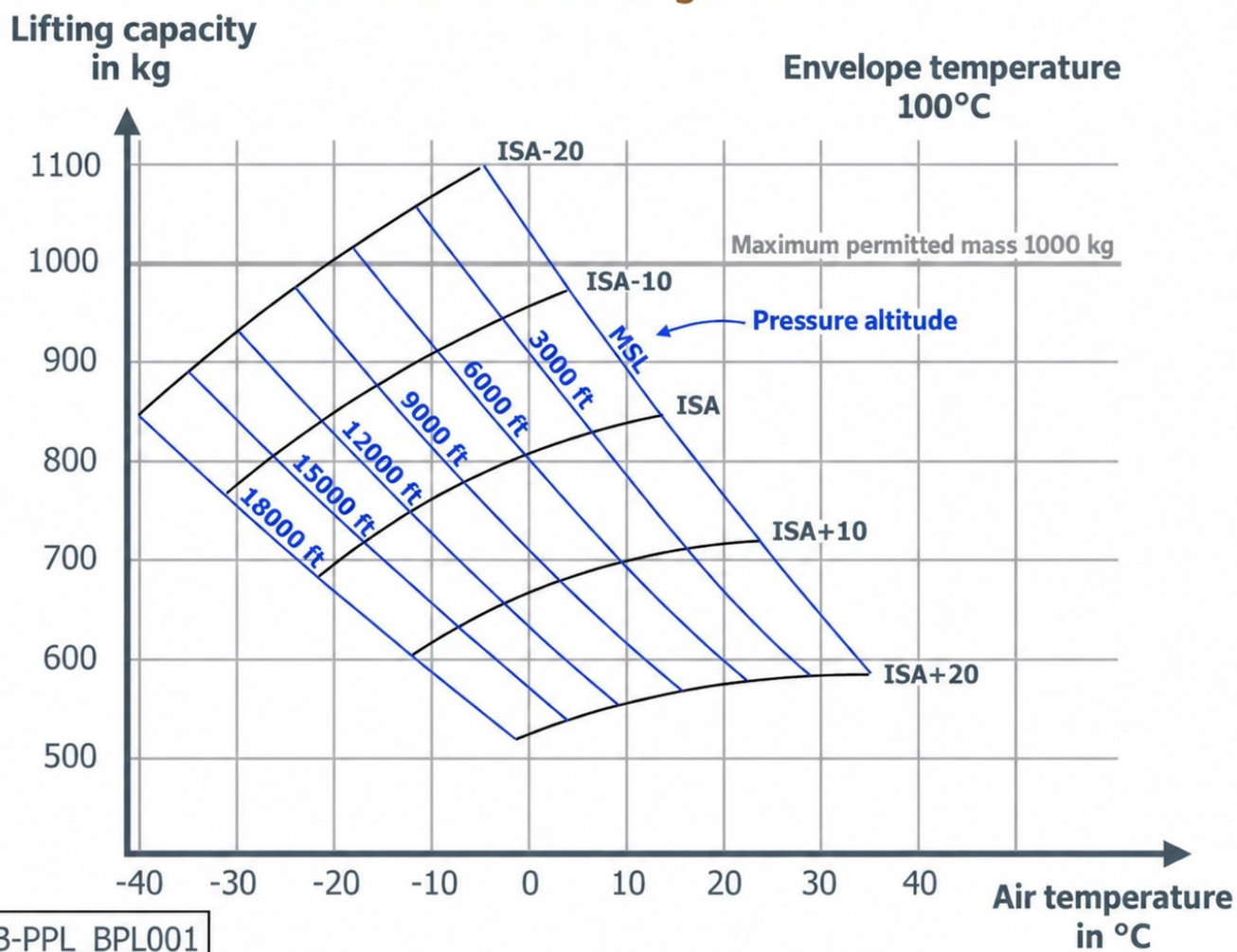
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90. Given the following masses: Empty mass 240 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg Up to which pressure altitude can the hot-air balloon climb with 5 persons and 4 gas containers in the basket, assuming temperatures 10° below ISA? (use attachment ECQB-PPL_BPL001)

Extract from the Flight Manual



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

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91. What is the call sign of the aerodrome control?

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

92. What pressure pattern can be observed during the passage of a polar front low?

- a) Falling pressure in front of the warm front, constant pressure within the warm sector, falling pressure behind the cold front
- b) Falling pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- c) Rising pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- d) Rising pressure in front of the warm front, rising pressure within the warm sector, falling pressure behind the cold front

93. What does a readability of 2 indicate?

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

94. What is the meaning of the abbreviation "ARC"?

- a) Airspace Restriction Criteria
- b) Airworthiness Recurring Control
- c) Airworthiness Review Certificate
- d) Airspace Rulemaking Committee

95. 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

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96. What is the legal status of requirements contained in EU regulations, such as Part-BFCL for balloon flight crew licensing and the applicable Part-MED provisions?

- a) They become binding only after each Member State ratifies every requirement separately
- b) They are optional guidance with no regulatory effect
- c) They are legally binding EU regulatory requirements; EASA AMC and GM are separate, non-binding material
- d) They have exactly the same legal status as all non-binding AMC and GM

97. 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

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

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

99. 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

100. A heading of 285 degrees is correctly transmitted as...

- a) Two hundred eighty-five
- b) Two eight five
- c) Two eight five hundred
- d) Two hundred eight five

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101. What is the mean height of the tropopause according to ISA (ICAO Standard Atmosphere)?

- a) 36000 m
- b) 11000 ft
- c) 11000 m
- d) 18000 ft

102. 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

103. The barometric altimeter indicates height above...

- a) Mean sea level
- b) Ground
- c) A selected reference pressure level
- d) Standard pressure 1013.25 hPa

104. 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

105. 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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106. 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

107. 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

108. Which phrase is to be used when a pilot wants the tower to know that he is ready for take-off?

- a) Ready for start-up
- b) Ready for departure
- c) Ready
- d) Request take-off

109. What amount of ignitable mixture can be made from 1 L (0.001 m³) liquid propane gas?

- a) 0.38 m³
- b) 0.26 m³
- c) 12 m³
- d) 1.2 m³

110. If heating is stopped and the parachute vent is not activated, a hot-air balloon reaches a final sinkrate of approximately:

- a) 6 m/s
- b) 2 m/s
- c) 10 m/s
- d) 20 m/s

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

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

112. What is meant by the term "terrestrial navigation"?

- 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

113. 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

114. 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

115. The term "static pressure" is defined as pressure...

- a) Of undisturbed airflow
- b) Sensed by the pitot tube
- c) Inside the aeroplane cabin
- d) Resulting from orderly flow of air particles

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116. 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

117. 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)

118. Carbon monoxide poisoning can be caused by...

- a) Unhealthy food
- b) Alcohol
- c) Smoking
- d) Little sleep

119. 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

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

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

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Response Scheme

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

01: B	02: D	03: C	04: C
05: D	06: C	07: B	08: C
09: C	10: C	11: D	12: C
13: B	14: C	15: C	16: D
17: B	18: D	19: D	20: D
21: C	22: A	23: C	24: C
25: B	26: B	27: D	28: C
29: D	30: C	31: D	32: A
33: A	34: C	35: C	36: D
37: C	38: C	39: C	40: D
41: B	42: D	43: A	44: A
45: B	46: B	47: C	48: B
49: C	50: C	51: D	52: D
53: B	54: B	55: B	56: D
57: C	58: A	59: B	60: C
61: D	62: B	63: B	64: C
65: B	66: B	67: D	68: B
69: D	70: A	71: A	72: A
73: B	74: A	75: C	76: C
77: A	78: C	79: D	80: B
81: B	82: C	83: B	84: A

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85: **B**

86: **C**

87: **B**

88: **C**

89: **B**

90: **B**

91: **B**

92: **B**

93: **D**

94: **C**

95: **A**

96: **C**

97: **C**

98: **B**

99: **D**

100: **B**

101: **C**

102: **C**

103: **C**

104: **A**

105: **D**

106: **D**

107: **D**

108: **B**

109: **C**

110: **A**

111: **A**

112: **B**

113: **A**

114: **A**

115: **A**

116: **A**

117: **C**

118: **C**

119: **B**

120: **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: _____	71: _____	72: _____
73: _____	74: _____	75: _____	76: _____
77: _____	78: _____	79: _____	80: _____
81: _____	82: _____	83: _____	84: _____

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85: _____	86: _____	87: _____	88: _____
89: _____	90: _____	91: _____	92: _____
93: _____	94: _____	95: _____	96: _____
97: _____	98: _____	99: _____	100: _____
101: _____	102: _____	103: _____	104: _____
105: _____	106: _____	107: _____	108: _____
109: _____	110: _____	111: _____	112: _____
113: _____	114: _____	115: _____	116: _____
117: _____	118: _____	119: _____	120: _____