Exam simulation

BPL Gas Balloon Pilot Licence - Navigation

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STUDENT NAME:	DATE AND TIME:

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

a) Resulting from orderly flow of air particles

b) Inside the aeroplane cabin

c) Sensed by the pitot tube

d) Of undisturbed airflow

02. What radio procedure is required for entering and operating in an RMZ, unless prescribed alternative provisions apply?

a) Listen only after entering; an initial call is optional

b) A transponder set to 7000 replaces the radio requirements

c) Make the required initial call before entry, maintain a continuous listening watch and establish two-way communication as necessary

d) Contact the local aviation authority after landing instead of making the initial call

03. The altimeter has to be set to what value in order to show zero on ground?

a) QNH

b) QTE

c) QFE

d) QNE

04. Which direction corresponds to 'compass north' (CN)?

a) The most northerly part of the magnetic compass in the aircraft, where the reading takes place

b) The direction from an arbitrary point on Earth to the geographical North Pole

c) The angle between the aircraft heading and magnetic north

d) The direction to which the direct reading compass aligns due to earth's and aircraft's magnetic fields

05. For a fully inflated gas balloon, what happens to its net lifting capacity when the lifting gas warms and excess gas is released, assuming unchanged envelope volume, ambient pressure and ambient temperature?

a) Climb force decreases

b) Weight force increases

c) Lift force decreases

d) Load-bearing capability increases

06. Which of the following situations is generally more favourable for a balloon flight, subject to checking the actual wind, weather and landing options?

a) A stable high-pressure situation near sunset with suitable light winds and no significant convection

b) Strong, gusty winds near an active thunderstorm

c) Strong foehn winds with lee-side rotors

d) An approaching active cold front with squalls

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

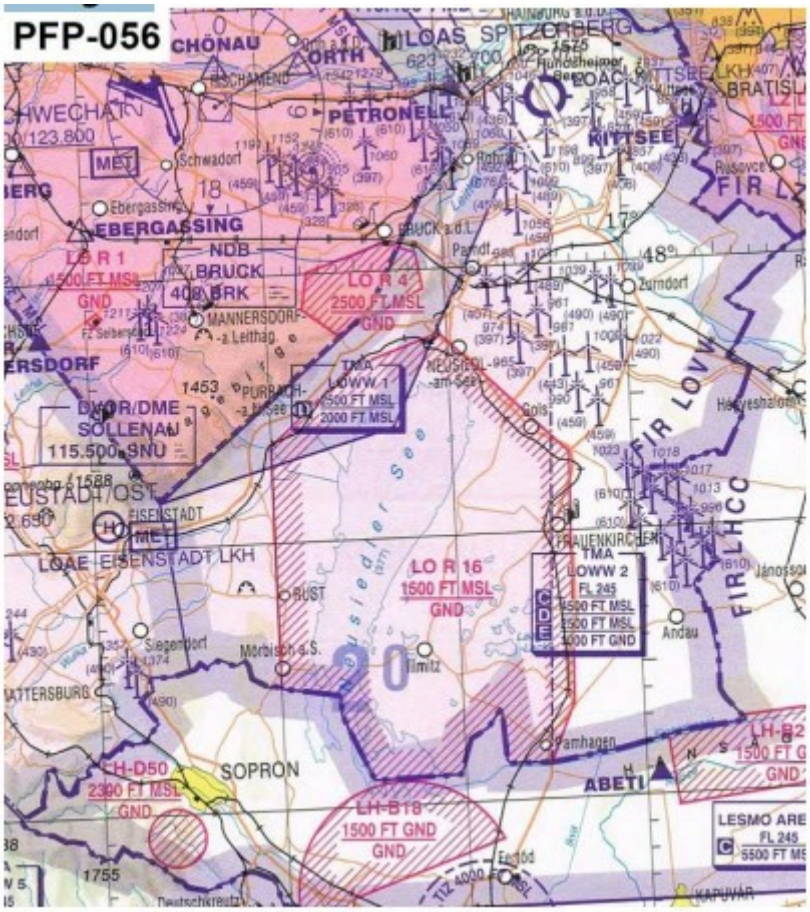
a) It can store 5 (±2) items for 1 to 2 minutes

b) It can store 3 (±1) items for 5 to 10 seconds

c) It can store 7 (±2) items for 10 to 20 seconds

d) It can store 10 (±5) items for 30 to 60 seconds

08. 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

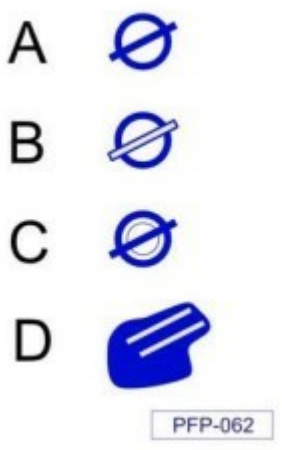
09. On summerdays with calm winds, the balloon pilot has to expect:

a) With strongly heated surface layers
b) With a cold air pool on the ground
c) With wind shear
d) With a pronounced ground inversion

10. 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

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



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

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

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

13. 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°

14. Which are the different parts of the Aeronautical Information Publication (AIP)?

a) GEN ENR AD
b) GEN MET RAC
c) GEN COM MET
d) GEN AGA COM

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

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

16. The "Certificate of Airworthiness" is issued by the state...

a) Of the residence of the owner
b) In which the aircraft is registered
c) In which the airworthiness review is done
d) In which the aircraft is constructed

17. Which instrument can be affected by the hysteresis error?

a) Tachometer
b) Altimeter
c) Vertical speed indicator
d) Direct reading compass

18. 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

19. Which of the following options states the working principle of a vertical speed indicator?

a) Measuring the present static air pressure and comparing it to the static air pressure inside a reservoir
b) Static air pressure is measured and compared against a vacuum
c) Measuring the vertical acceleration through the displacement of a gimbal-mounted mass
d) Total air pressure is measured and compared to static pressure

20. 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

21. 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

22. How can expanding filling gas be released in case the filling port of a gas balloon cannot be opened during cruise?

a) By activating the pull rope
b) Through the emergency opening
c) By releasing the filling port cables
d) By turning the Poeschelring

23. What does the abbreviation "FIS" stand for?

a) Flashing information service
b) Flight information system
c) Flashing information system
d) Flight information service

24. Clouds are basically distinguished by what types?

a) Cumulus and stratiform clouds
b) Layered and lifted clouds
c) Thunderstorm and shower clouds
d) Stratiform and ice clouds

25. 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) No separate gas containers are allowed during buildup
c) The gas containers have to be fixed safely inside the basket
d) Two gas containers (one inside, one outside) are to be used

26. What difference will be experienced during take-off in presence of a strong surface inversion, compared to a take-off with decreasing temperature with height?

a) During climb through an inversion, less ballast must be released and/or less heating is required
b) During climb through an inversion, less ballast must be released and/or more heating is required
c) During climb through an inversion, more ballast must be released and/or more heating is required
d) During climb through an inversion, more ballast must be released and/or less heating is required

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

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

28. Before a balloon flight over water where land may not be reachable for an emergency landing, what must the pilot-in-command determine under BOP.BAS.340?

a) Only whether a lifeboat can replace all individual flotation devices without further assessment

b) Only whether a continuous ATC contact can replace survival equipment

c) Only whether the flight plan contains enough waypoints

d) The risks to survival after ditching and the need for life-saving and signalling equipment appropriate to those risks

29. What is the mass of a "cube of air" with the edges 1 m long, at MSL according ISA?

a) 0.1225 kg

b) 12.25 kg

c) 0.01225 kg

d) 1.225 kg

30. A gas balloon has to be equipped with which tethers?

a) 1 at 40 m or 4 at 10 m

b) 1 at 30 m or 3 at 10 m

c) 2 at 10 m or 1 at 20 m

d) 2 at 20 m or 1 at 10 m

31. 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

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

a) Human failure

b) Technical failure

c) Geographical influences

d) Meteorological influences

33. Under BOP.BAS.050(b), which of these balloon documents may be carried on the flight or stowed in the retrieve vehicle, as originals or copies, subject to any additional requirements of the States concerned?

a) The certificate of registration, certificate of airworthiness, AFM or equivalent, third-party liability insurance certificate and balloon logbook or equivalent

b) Only an EASA Form 1 and the crew members' passports

c) Only an aeroplane technical log, even when the aircraft is a balloon

d) Only a passenger list; no aircraft documentation is required

34. When is the blind-transmission procedure used under SERA.14085(a)?

a) Only after the pilot has received proof that the ground station can hear the aircraft

b) Whenever a routine transmission should be sent to several stations at once

c) After all available attempts to establish contact on appropriate channels with ATS units or other aircraft have failed

d) Only after unintentionally entering cloud while radio communication still works

35. 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

36. When the risk assessment for a balloon flight over water calls for individual flotation equipment, what does AMC2 BOP.BAS.340 recommend?

a) One shared life jacket for the whole basket

b) A life jacket or equivalent individual flotation device for every person on board, readily accessible or worn, with a means of electric illumination

c) Life jackets for passengers only, excluding the crew

d) A lifeboat as an automatic replacement for every individual flotation device

37. 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

38. What does a cloud coverage of "BKN" mean in a METAR weather report?

a) 5 to 7 eighths

b) 1 to 2 eighths

c) 8 eighths

d) 3 to 4 eighths

39. 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

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

a) Airfield elevation

b) Pressure altitude

c) Altitude above MSL

d) Height above airfield

41. In a simplified gas-balloon model, how does ascent below the pressure ceiling differ from ascent above it?

a) Below the pressure ceiling the balloon can climb indefinitely without becoming fully inflated

b) Above the pressure ceiling the envelope expands indefinitely without releasing gas

c) Below the pressure ceiling the lifting gas can expand; above it gas is released from the full envelope and lifting capacity decreases

d) Reaching the pressure ceiling has no effect on gas volume or lifting capacity

42. When do you expect wind shear?

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

43. 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"

44. 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

45. 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

46. 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

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

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

48. 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

49. A true altitude is...

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

50. During a balloon ride, visibility continuously becomes poorer, also cloud base decreases in direction of the current track. How should the balloon pilot react to this situation?

a) Continue ride in remaining altitude
b) Use next best chance for landing
c) Use GPS or radio navigation to continue ride in clouds
d) Break through the clouds and continue above clouds

51. 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

52. What chart shows areas of precipitation?

a) Radar picture
b) GAFOR
c) Wind chart
d) Satellite picture

53. What is the correct way of using the aircraft call sign at first contact?

a) Using the last two characters only
b) Using all characters
c) Using the first two characters only
d) Using the first three characters only

54. At time of take-off, ground wind speed is 3 m/s. Along take-off flight path, at a distance of 360 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) 0.5 m/s
d) 1.5 m/s

55. 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

56. 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

57. What action should be recommended to a balloon pilot after landing with a gas balloon in a forest with large fir trees?

a) Quick release the gas from the balloon by activating the rip panel
b) Slowly draining the balloon by gently pulling the vents, until the basket touches ground
c) Transport the filled balloon by ground crew to a clear area, and dismount it there
d) Fix the balloon over night; try restart at next morning

58. 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

59. 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

60. What is the great circle distance between two points A and B on the equator when the difference between the two associated meridians is exactly one degree of longitude?

a) 60 NM
b) 216 NM
c) 400 NM
d) 120 NM

61. Which of the following options are possible SSR-Transponder modes?

a) B, R, S
b) A, C, S
c) A, C, R
d) B, C, V

62. Regularity 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) Sent by an aircraft operating agency or an aircraft of immediate concern to an aircraft in flight

d) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation

63. If there is any doubt about ambiguity, a time of 1620 is to be transmitted as...

a) One six two zero

b) Sixteen twenty

c) One thousand six hundred two zero

d) Two zero

64. 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

65. In what situation is it appropriate to set the transponder code 7600?

a) Hijacking

b) Loss of radio

c) Flight into clouds

d) Emergency

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

a) The gas heats adiabatically due to expansion

b) The gas cools adiabatically due to expansion

c) The gas condenses inside the envelope

d) The gas cools due to thermal contact with environmental air

67. 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

68. 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

69. What is meant by "inversion layer"?

a) An atmospheric layer where temperature increases with increasing height
b) A boundary area between two other layers within the atmosphere
c) An atmospheric layer with constant temperature with increasing height
d) An atmospheric layer where temperature decreases with increasing height

70. Who provides search and rescue service?

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

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Response Scheme

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

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

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