Exam simulation

BPL Gas Balloon Pilot Licence - Aircraft General Knowledge

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STUDENT NAME:	DATE AND TIME:

01. 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

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

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

03. What is the meaning of the abbreviation "AIREP"?

a) Aeronautical instrument requirement report
b) Aircraft report
c) Automatic identification report
d) Aeronautical information report

04. At which height the load carrying capability of a gas balloon is reduced by approximately 50% compared to MSL?

a) At 6500 m
b) At 11000 m
c) At 18000 m
d) At 1500 m

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05. What conditions are favourable for the formation of thunderstorms?

a) Warm and dry air, strong inversion layer
b) Clear night over land, cold air and patches of fog
c) Calm winds and cold air, overcast cloud cover with St or As
d) Warm humid air, conditionally unstable environmental lapse rate

06. 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

07. Which phrase is to be repeated three times before transmitting an urgency message?

a) Pan Pan
b) Help
c) Urgent
d) Mayday

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

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

09. 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

10. 5500 m equal...

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

11. A wind shear is...

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

12. 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) 5° C
c) 25° C
d) 0° C

13. 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

14. What is the gas composition of "air"?

a) Oxygen 78 % Water vapour 21 % Nitrogen 1 %
b) Oxygen 21 % Water vapour 78 % Noble gases / carbon dioxide 1 %
c) Nitrogen 21 % Oxygen 78 % Noble gases / carbon dioxide 1 %
d) Oxygen 21 % Nitrogen 78 % Noble gases / carbon dioxide 1 %

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

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

16. In a given height, a given amount of ballast is unloaded from a gas balloon. How is the increase in height at 5500 m different from the increase in height at MSL by unloading the same amount of ballast?

a) At 5500 m the increase in height is twice as high
b) At 5500 m the increase in height is three times as high
c) At both heights the same increase in height is observed
d) At 5500 m the increase in height is four times as high

17. 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

18. 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

19. 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

20. Which dangerous attitudes are often combined?

a) Impulsivity and carefulness

b) Macho and invulnerability

c) Self-abandonment and macho

d) Invulnerability and self-abandonment

21. Before take-off, the balloon pilot realises that the maximum take-off mass has been exceeded by 5%. What has to be done?

a) The load has to be reduced to maximum take-off mass

b) During take-off, special care has to be taken for obstacles

c) With exceeding up to 5%, normal take-off can be performed

d) Take-off has to be approved by the airfield manager on duty

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

a) Ground

b) Tower

c) Airfield

d) Control

23. What phrase is used by a pilot to inform the tower about a go-around?

a) Approach canceled

b) Going around

c) No landing

d) Pulling up

24. What is the correct way of acknowledging the instruction "DZF after lift-off climb straight ahead until 2500 feet before turning right heading 220 degrees, wind 090 degrees, 5 knots, runway 12, cleared for take-off"?

a) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, runway 12, cleared for take-off

b) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots, cleared for take-off

c) DZF after lift-off climb straight ahead 2500 feet, wilco, heading 220 degrees, 090 degrees, 5 knots, cleared for take-off

d) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots

25. What pressure pattern can be observed when a cold front is passing?

a) Continually decreasing pressure

b) Shortly decreasing, thereafter increasing pressure

c) Constant pressure pattern

d) Continually increasing pressure

26. 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?

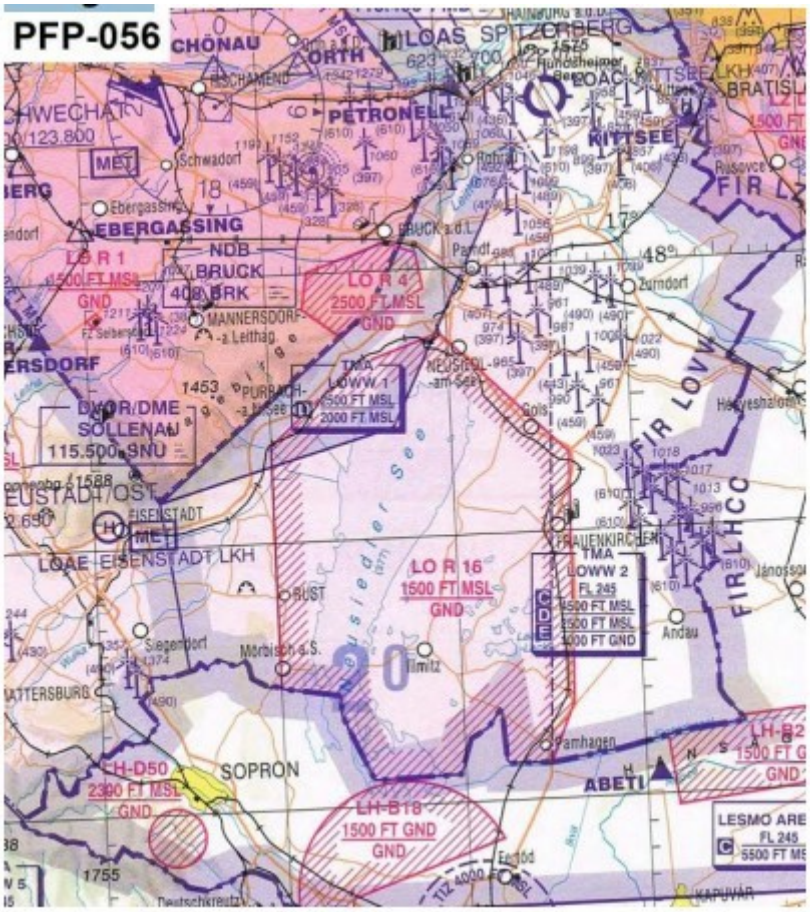
a) 8 m/s

b) 2.5 m/s

c) 10 m/s

d) 1 m/s

27. 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

28. 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

29. 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

30. Wake turbulence is particularly strong...

a) When flying at high speeds
b) When flying at high altitudes
c) When flying at low speeds
d) When flying at low altitudes

31. The term "runway" is defined as a...

a) Rectangular area on a land or water aerodrome prepared for the landing and take-off of aircraft
b) Rectangular area on a land aerodrome prepared for the landing and take-off of helicopters
c) Round area on an aerodrome prepared for the landing and take-off of aircraft
d) Rectangular area on a land aerodrome prepared for the landing and take-off of aircraft

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

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

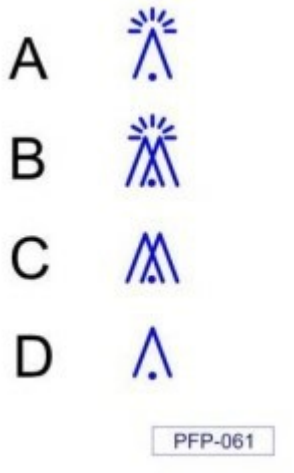
33. Which transponder code has to be set unrequested during an emergency?

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

34. 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

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



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

36. On what frequency shall a blind transmission be made?

a) On a tower frequency
b) On a radar frequency of the lower airspace
c) On the appropriate FIS frequency
d) On the current frequency

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

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

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

a) Hijacking
b) Loss of radio
c) Flight into clouds
d) Emergency

39. For what approximate time period can the short-time memory store information?

a) 10 to 20 seconds
b) 3 to 7 seconds
c) 30 to 40 seconds
d) 35 to 50 seconds

40. What is the purpose of the closing rope of a gas balloon?

a) To close the sand disposer
b) To close the appendix
c) To close the emergency opening
d) To secure the towing rope

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 weather chart shows the actual air pressure as in MSL along with pressure centers and fronts?

a) Wind chart

b) Hypsometric chart

c) Prognostic chart

d) Surface weather chart

43. 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

44. 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

45. In case of damage of the hull of a gas balloon, repairs have to be done by a certified Approved Aeronautical Workshop when exceeding a length of:

a) 1.0 m

b) 2.0 m

c) 0.5 m

d) 5.0 m

46. 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

47. In a METAR, "(moderate) showers of rain" are designated by the identifier...

a) +TSRA
b) TS
c) SHRA
d) +RA

48. Wake turbulence is caused by...

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

49. 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

50. 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

51. 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

52. 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

53. What can solar heating of the lifting gas do to the pressure ceiling of a gas balloon before gas is released?

a) The pressure ceiling decreases

b) The pressure ceiling increases

c) The lifting gas always cools immediately

d) A sudden increase in rate of descent

54. 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

55. The term 'civil twilight' is defined as...

a) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the true horizon

b) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the apparent horizon

c) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the true horizon

d) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the apparent horizon

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

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

57. Where does the inclination reach its lowest value?

a) At the geographic equator
b) At the magnetic poles
c) At the magnetic equator
d) At the geographic poles

58. 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

59. 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

60. 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

61. The barometric altimeter with QNH setting indicates...

a) Height above the pressure level at airfield elevation

b) Height above standard pressure 1013.25 hPa

c) True altitude above MSL

d) Height above MSL

62. The assembly of the panels to the hull of a web-less gas balloon is done ...

a) By vulcanisation

b) By stitching

c) By welding

d) By gluing

63. 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

64. 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

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

a) Upper lift

b) Anti-ballast

c) Lower lift

d) False lift

66. What visual flight conditions can be expected within the warm sector of a polar front low during summer time?

a) Visibility less than 1000 m, cloud-covered ground

b) Moderate to good visibility, scattered clouds

c) Moderate visibility, heavy showers and thunderstorms

d) Good visibility, some isolated high clouds

67. 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

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

a) Floating on top of the cold air layer

b) Sudden change in airspeed

c) Balloon starts to climb

d) Increasing descent while entering to ground layers

69. Information about pressure patterns and frontal situation can be found in which chart?

a) Surface weather chart

b) Hypsometric chart

c) Wind chart

d) Significant Weather Chart (SWC)

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

a) Oxygen transport

b) Immune defense

c) Blood sugar regulation

d) Blood coagulation

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Response Scheme

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

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

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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:
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69:	70:		

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