Exam simulation

BPL Hot-Air Balloon Pilot Licence - Human Performance and Limitations

Quizvds.it

STUDENT NAME:	DATE AND TIME:

01. 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

02. What does the abbreviation "H24" stand for?

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

03. What does a readability of 1 indicate?

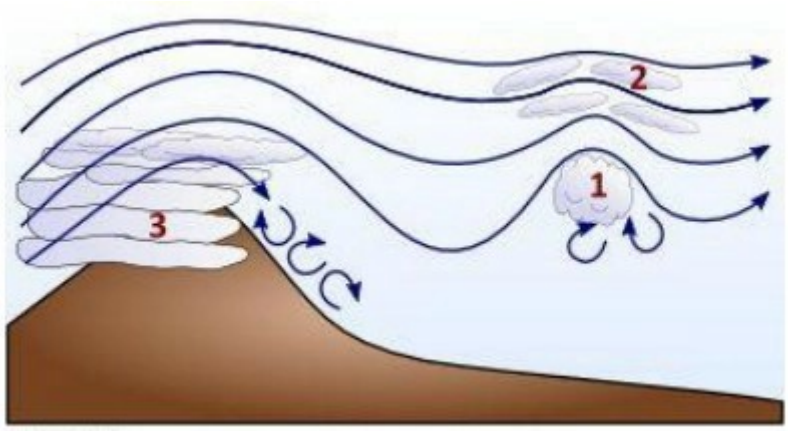
a) The transmission is perfectly readable
b) The transmission is readable now and then
c) The transmission is readable but with difficulty
d) The transmission is unreadable

04. Which phrase does a pilot use when he / she wants to check the readability of his / her transmission?

a) What is the communication like?
b) You read me five
c) How do you read?
d) Request readability

Visit quizvds.it and download the Apps for iPhone, iPad and Android! Quizvds.it

05. What weather phenomenon designated by "2" has to be expected on the lee side during "Foehn" conditions? See figure (MET-001).



a) Cumulonimbus
b) Altocumulus Castellanus
c) Nimbostratus
d) Altocumulus lenticularis

06. The average decrease of blood alcohol level for an adult in one hour is approximately...

a) 0.3 percent
b) 0.03 percent
c) 0.01 percent
d) 0.1 percent

07. What is the difference in latitude between A (12°53'30''N) and B (07°34'30''S)?

a) 05°19'00''
b) 20°28'00''
c) 20.28°
d) 05.19°

08. 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

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

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

10. The minimum flight visibility at 5000 ft MSL in airspace B for VFR flights is...

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

11. 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

12. 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

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

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

14. What is the meaning of the abbreviation "VMC"?

a) Variable meteorological conditions
b) Visual meteorological conditions
c) Instrument flight conditions
d) Visual flight rules

15. Liquefaction 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

16. 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

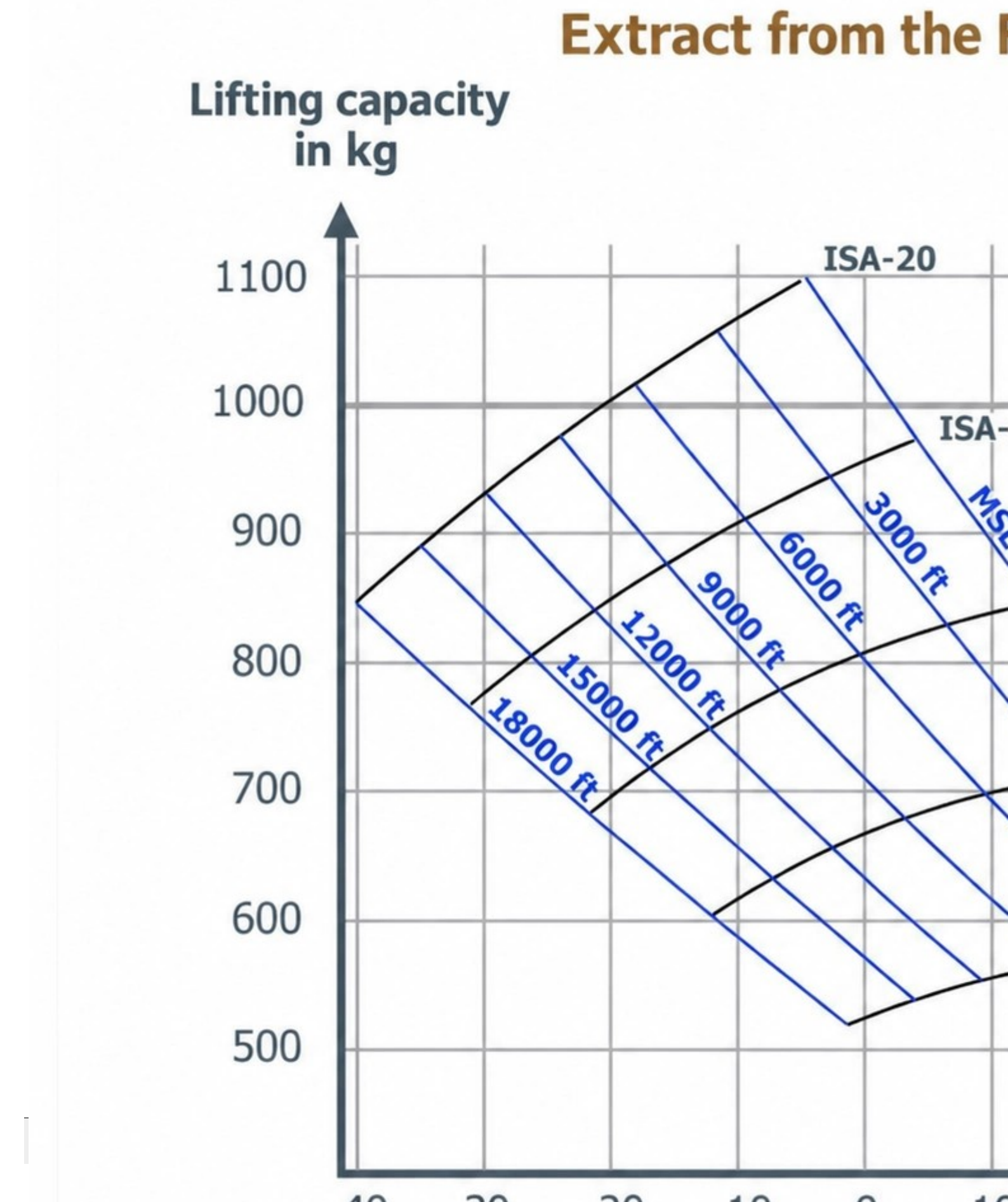
17. The ongoing process to monitor the current flight situation is called...

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

18. 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

19. Given the following masses: Empty mass 260 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg Assuming ISA temperatures, how many persons may be carried in the basket at maximum, if the hot-air balloon with 4 gas containers has to climb up to pressure altitude 9000 ft ? (use attachment ECQB-PPL_BPL001)


Extract from the
Lifting capacity in kg
1100
1000
900
800
700
600
500
ISA-20
ISA-
3000 ft
6000 ft
9000 ft
12000 ft
15000 ft
18000 ft

a) 4
b) 5
c) 2
d) 3

20. 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

21. 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

22. 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

23. 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

24. 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

25. 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

26. After unsuccessful attempts to establish radio contact, how many times should the same message be transmitted when using the blind-transmission procedure?

a) Four times
b) Two times
c) Three times
d) One time

27. The hull fabric of a hot-air balloon undergoes the most continuous thermal stress in which area?

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

28. 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 windward side of the basket
c) To the sunward side of the basket
d) To the sun-averted side of the basket

29. 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

30. 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 decreases

d) Volume increases, density decreases, temperature decreases

31. 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

32. 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

33. 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

34. The vertical extent of air with pressure changing by 1% with 80 m difference in height is referred to as ...

a) Inhomogeneous

b) Homogeneous

c) Unstable

d) Stable

35. The angle between compass north and magnetic north is called...

a) Inclination

b) WCA

c) Deviation

d) Variation

36. 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

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

a) QNH

b) QTE

c) QFE

d) QNE

38. In which way may an altimeter subscale which is set to an incorrect QNH lead to an incorrect altimeter reading?

a) If the subscale is set to a lower than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended

b) If the subscale is set to a lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended

c) If the subscale is set to a higher than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended

d) If the subscale is set to a higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended

39. 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

40. A true altitude is...

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

41. Which validity does the "Certificate of Airworthiness" have?

a) 12 years
b) 12 months
c) Unlimited
d) 6 months

42. 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 %

43. 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

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

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

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

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

46. The shown NOTAM is valid until... A1024/26 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

47. What is meant by "isothermal layer"?

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

48. A flight level is a...

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

49. 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

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

a) Traffic information
b) Taxi instructions
c) Heading
d) Altimeter setting

51. What is the distance between the parallels of latitude 48°N and 49°N along a meridian line?

a) 10 NM
b) 111 NM
c) 60 NM
d) 1 NM

52. 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

53. 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

54. 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

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

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

56. 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

57. Why should liquid gas bottles for hot-air balloons be transported upright?

a) Because no other positions are approved
b) To prevent damage on the riser tube
c) To prevent exiting of residual gas
d) To keep the armature panel clean

58. What is the purpose of the vaporizer coils of the burner system?

a) To induce a rotation movement in the liquid gas to get a better mixture
b) For cooling of the liquid gas after exiting the burner nozzles
c) To heat the liquid gas, so it will vaporize immediately after exiting the burner nozzle
d) To vaporize the liquid gas, so it will be emitted from the burner nozzle in gaseous form

59. Doubling the pressure of a dry gas at constant temperature results in a change of the volume to:

a) Double the previous value

b) Half the previous value

c) Four times the previous value

d) A quarter of the previous value

60. 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

61. 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

62. 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

63. What cloud type can typically be observed across widespread high pressure areas during summer?

a) Squall lines and thunderstorms

b) Overcast low stratus

c) Overcast Ns clouds

d) Scattered Cu clouds

64. 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

65. What is the correct phrase to begin a blind transmission?

a) Transmitting blind

b) No reception

c) Listen

d) Blind

66. Which of the following statements is correct?

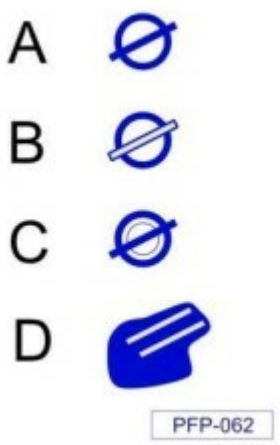
a) At higher altitude, sink rate in case of cooling is increased due to less drag by less density

b) At higher altitude, sink rate by cooling is not increased because due to low density the mass inside the hull is also less

c) Higher drag at higher altitude prevents increased sink rate in case of cooling

d) Maximum sink rate must be equal at all altitudes as prescribed by design regulations

67. (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

68. 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

69. 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

70. 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) Life jackets for passengers only, excluding the crew

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

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

Exam simulation

BPL Hot-Air Balloon Pilot Licence - Human Performance and Limitations

Quizvds.it

Response Scheme

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

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

Visit quizvds.it and download the Apps for iPhone, iPad and Android!

Quizvds.it

Exam simulation

BPL Hot-Air Balloon Pilot Licence - Human Performance and Limitations

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:		

Visit quizvds.it and download the Apps for iPhone, iPad and Android!

Quizvds.it