Exam simulation

BPL Hot-Air Balloon Pilot Licence - Air Law

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STUDENT NAME:	DATE AND TIME:

01. What does a readability of 5 indicate?

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

02. The increase in load carrying capability by increasing the hull air temperature by the same temperature difference ...

a) Increases with balloon mass
b) Increases with altitude
c) Decreases with sinking
d) Decreases with altitude

03. What may be the consequence, if gas containers of a hot-air balloon are refilled at temperatures below 0 °C by volume (80%)?

a) Too low pressure at high temperatures
b) Less burner power at high temperatures
c) Smaller volume in the container at high temperatures
d) Overfilling of the gas container

04. 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

05. QFE is the...

a) Magnetic bearing to a station
b) Barometric pressure at a reference datum, typically the runway threshold of an airfield
c) Barometric pressure adjusted to sea level, using the international standard atmosphere (ISA)
d) Altitude above the reference pressure level 1013.25 hPa

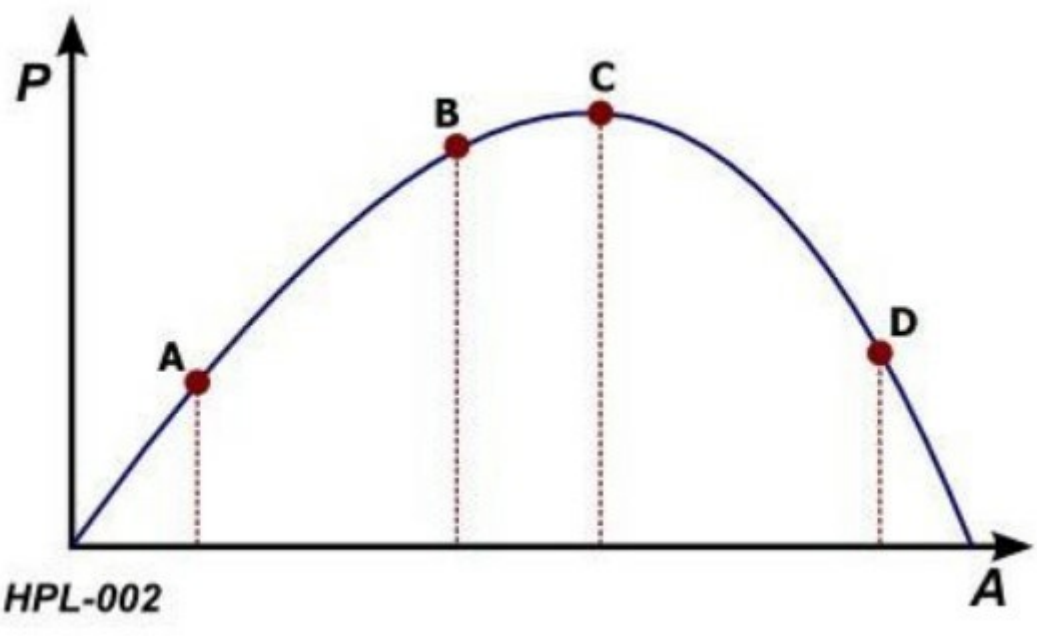
06. After unsuccessful attempts to establish radio contact, how many times should the same message be transmitted when using the blind-transmission procedure?

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

07. 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

08. Which labelled point represents the highest performance and the ideal level of arousal in the diagram? See figure (HPL-002). P = Performance; A = Arousal / Stress.



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

09. 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

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

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

11. 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

12. How does air temperature change in ISA from MSL to approx. 10000 m height?

a) From +30° to -40°C

b) From -15° to 50°C

c) From +15° to -50°C

d) From +20° to -40°C

13. 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

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

a) At the lower opening

b) The upper pole

c) At the center of the hull

d) At the equator

15. 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

16. 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

17. 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

18. 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

19. What is the correct way to transmit the call sign HB-YKM?

a) Hotel Bravo Yuliett Kilo Mikro
b) Home Bravo Yuliett Kilo Mike
c) Home Bravo Yankee Kilo Mikro
d) Hotel Bravo Yankee Kilo Mike

20. 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

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

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

22. 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

23. Which air traffic services can be expected within an FIR (flight information region)?

a) FIS (flight information service) ALR (alerting service)
b) ATC (air traffic control) FIS (flight information service)
c) AIS (aeronautical information service) SAR (search and rescue)
d) ATC (air traffic control) AIS (aeronautical information service)

24. At which altitude is the atmospheric pressure approximately half the MSL value (1013 hPa)?

a) 5000 ft
b) 18000 ft
c) 22000 ft
d) 10000 ft

25. 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

26. 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

27. Which standard radiotelephony phrase is used to answer "no"?

a) Finish

b) Negative

c) No

d) Not

28. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?

a) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection is +-10 NM

b) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS

c) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection is +-10°

d) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS

29. 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

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

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

31. The shortest distance between two points on Earth is represented by a part of...

a) A small circle
b) A great circle
c) A rhumb line
d) A parallel of latitude

32. 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

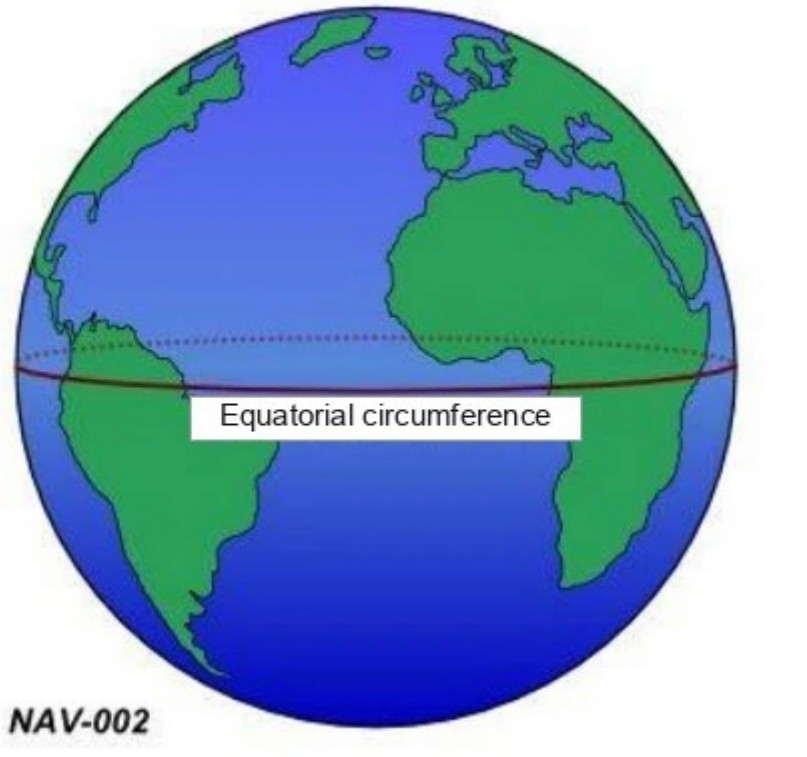
33. Which abbreviation is used for the term "abeam"?

a) ABB
b) ABA
c) ABM
d) ABE

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

a) QNH
b) QTE
c) QFE
d) QNE

35. The circumference of the Earth at the equator is approximately... See figure (NAV-002)



a) 40000 NM
b) 12800 km
c) 10800 km
d) 21600 NM

36. 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

37. What is referred to as mountain wind?

a) Wind blowing uphill from the valley during daytime
b) Wind blowing uphill from the valley during the night
c) Wind blowing down the mountain side during daytime
d) Wind blowing down the mountain side during the night

38. 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

39. The vertical speed indicator measures the difference of pressure between...

a) The present dynamic pressure and the static pressure of a previous moment
b) The present total pressure and the total pressure of a previous moment
c) The present dynamic pressure and the dynamic pressure of a previous moment
d) The present static pressure and the static pressure of a previous moment

40. Which phrase is used by a pilot when he wants to fly through controlled airspace?

a) Apply
b) Want
c) Request
d) Would like

41. 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

42. Under which conditions false readouts are possible on hull thermometers using radio communication from sensor to indicator panel?

a) When radio messages are received
b) When the sensor battery is almost empty
c) When the hull temperature exceeds 110 °C
d) When there is no intervisibility to temperature sensor

43. 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

44. 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

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

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

46. Which transponder code should be set during a radio failure without any request?

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

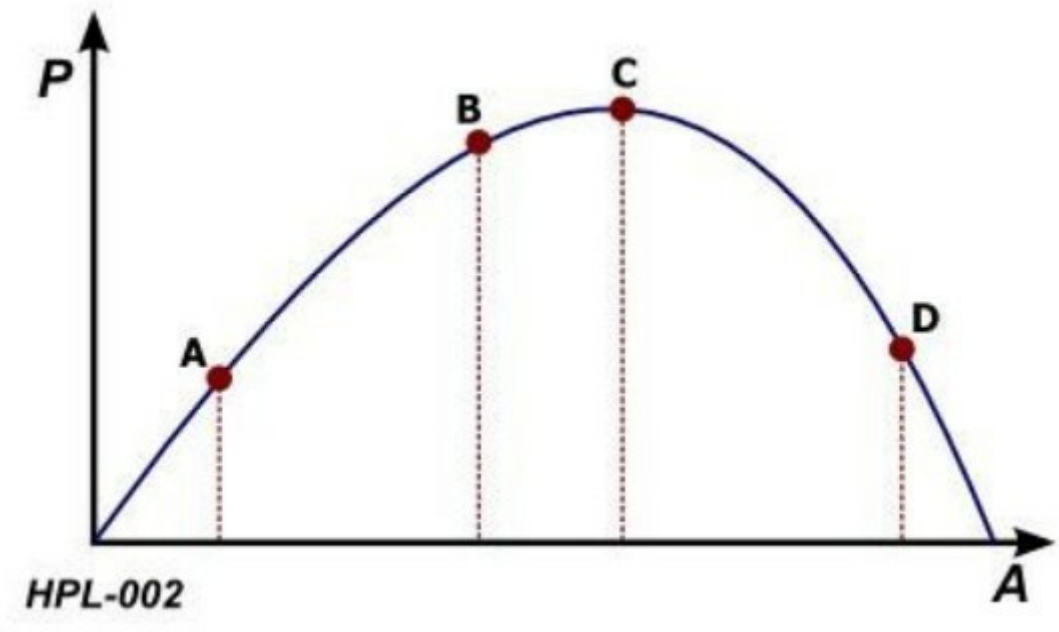
47. During a flight, a flight plan can be filed at the...

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

48. With other factors remaining constant, decreasing temperature results in...

a) Decreasing spread and decreasing relative humidity
b) Decreasing spread and increasing relative humidity
c) Increasing spread and decreasing relative humidity
d) Increasing spread and increasing relative humidity

49. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance A = Arousal / Stress



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

50. 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

51. Which of the following messages has the highest priority?

a) Turn left
b) Request QDM
c) QNH 1013
d) Wind 300 degrees, 5 knots

52. 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

53. How many suitably positioned GPS satellites are needed for a basic three-dimensional position solution, without a separate RAIM integrity check?

a) Four
b) Five
c) Two
d) Three

54. 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

55. 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

56. What information is provided in the general part (GEN) of the AIP?

a) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces

b) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees

c) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts, restricted and dangerous airspaces

d) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods

57. Which force causes "wind"?

a) Thermal force

b) Pressure gradient force

c) Coriolis force

d) Centrifugal force

58. 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

59. What is the correct way of acknowledging the instruction "Next report PAH"?

a) Wilco

b) Positive

c) Roger

d) Report PAH

60. 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

61. 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

62. 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

63. 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

64. 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

65. 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

66. 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

67. 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

68. Which of the stated surfaces will reduce the wind speed most due to ground friction?

a) Flat land, lots of vegetation cover

b) Oceanic areas

c) Mountainous areas, vegetation cover

d) Flat land, deserted land, no vegetation

69. What does the abbreviation "FIR" stand for?

a) Flight integrity receiver

b) Flow integrity required

c) Flow information radar

d) Flight information region

70. 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

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Response Scheme

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

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

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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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