

Exam simulation

BPL Hot Air - Balloon Pilot License - Air Law



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STUDENT NAME:

DATE AND TIME:

01. Which altitude marks the lower limit where the body is unable to completely compensate the effects of the low atmospheric pressure?

- a) 12000 feet
- b) 7000 feet
- c) 22000 feet
- d) 5000 feet

02. 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

03. What should be considered regarding a scheduled flight over water, when land cannot be reached in case of an emergency landing?

- a) Contact to the nearest ATC shall consist during the whole flight
- b) The flight plan has to contain the exact waypoints
- c) For all passengers there must be life jackets or lifeboats present
- d) Transponder code 7600 has to be set during the whole flight

04. Which are the properties of a Lambert conformal chart?

- a) The chart is conformal and nearly true to scale
- b) Great circles are depicted as straight lines and the chart is an equal-area projection
- c) Rhumb lines are depicted as straight lines and the chart is conformal
- d) The chart is conformal and an equal-area projection

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05. Weather phenomena are most common to be found in which atmospheric layer?

- a) Thermosphere
- b) Troposphere
- c) Tropopause
- d) Stratosphere

06. The "spread" is defined as...

- a) Difference between dew point and condensation point
- b) Relation of actual to maximum possible humidity of air
- c) Difference between actual temperature and dew point
- d) Maximum amount of water vapour that can be contained in air

07. 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

08. What weather conditions can be expected during "Foehn" on the windward side of a mountain range?

- a) Layered clouds, mountains obscured, poor visibility, moderate or heavy rain
- b) Scattered cumulus clouds with showers and thunderstorms
- c) Calm wind and forming of high stratus clouds (high fog)
- d) Dissipating clouds with unusual warming, accompanied by strong, gusty winds

09. An aircraft travels 100 km in 56 minutes. The ground speed (GS) equals...

- a) 93 kt
- b) 198 kt
- c) 107 km/h
- d) 58 km/h



10. What statement is correct with regard to the density of a gas?

- a) The density increases with increasing temperature and constant volume
- b) The density decreases with decreasing volume and constant temperature
- c) The density decreases with increasing temperature and constant volume
- d) The density decreases with increasing temperature and constant pressure

11. What action has to be considered by the pilot of a hot-air balloon with a double-burner installation, in case one burner valve fails?

- a) An emergency call should be made
- b) Both burner valves have to be shut down immediately
- c) The ride has to be stopped immediately
- d) The ride can be continued by use of the remaining burner

12. What type of turbulence is typically found close to the ground on the lee side during Foehn conditions?

- a) Clear-air turbulence (CAT)
- b) Turbulence in rotors
- c) Inversion turbulence
- d) Thermal turbulence

13. 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

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

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

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15. Which gas is heavier than air?

- a) Hydrogen
- b) Propane
- c) Helium
- d) Illuminating gas

16. 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°

17. What is the percentage of oxygen in the atmosphere at 6000 ft?

- a) 78 %
- b) 21 %
- c) 12 %
- d) 18.9 %

18. What effect has the elevation above MSL of an airfield on the carrying force and maximum take-off mass of a balloon?

- a) The higher the elevation, the lower the carrying force
- b) The lower the elevation, the lower the maximum take-off mass
- c) The lower the elevation, the higher the maximum take-off mass
- d) The higher the elevation, the greater the carrying force

19. 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

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20. 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

21. 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

22. An inversion is a layer ...

- a) With increasing pressure with increasing height
- b) With increasing temperature with increasing height
- c) With constant temperature with increasing height
- d) With decreasing temperature with increasing height

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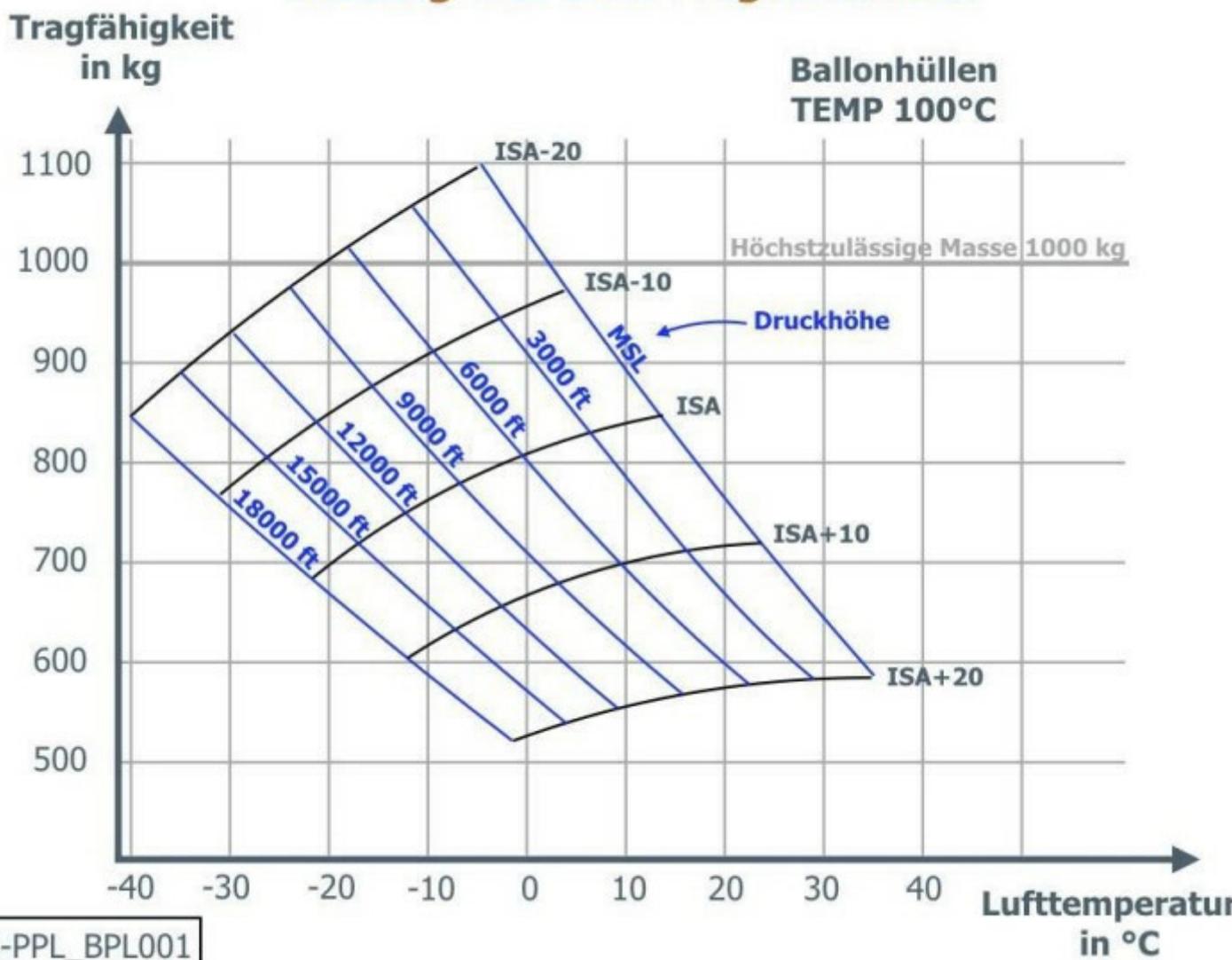
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23. Given the following masses: Empty mass 260 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg Assuming ISA temperatures, how many persons may be carried in the basket at maximum, if the balloon with 4 gas containers has to climb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

Auszug aus dem Flughandbuch



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

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24. 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

25. 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

26. 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

27. What visual flight conditions can be expected after the passage of a cold front?

- a) Poor visibility, formation of overcast or ground-covering stratus clouds, snow
- b) Medium visibility with lowering cloud bases, onset of prolonged precipitation
- c) Good visibility, formation of cumulus clouds with showers of rain or snow
- d) Scattered cloud layers, visibility more than 5 km, formation of shallow cumulus clouds

28. The term 'agonic line' is defined as a line on Earth or an aeronautical chart, connecting all points with the...

- a) Deviation of 0°
- b) Inclination of 0°
- c) Heading of 0°
- d) Variation of 0°

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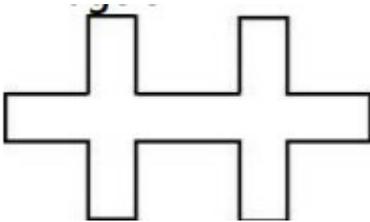


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29. Which abbreviation is used for the term "abeam"?

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

30. What is the meaning of this sign at an aerodrome? See figure (ALW-011)



- a) Landing prohibited for a longer period
- b) Glider flying is in progress
- c) After take-off and before landing all turns have to be made to the right
- d) Caution, manoeuvring area is poor

31. In what different ways can a risk be handled appropriately?

- a) Avoid, ignore, palliate, reduce
- b) Extrude, avoid, palliate, transfer
- c) Ignore, accept, transfer, extrude
- d) Avoid, reduce, transfer, accept

32. 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

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33. 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

34. How can wind speed and wind direction be derived from surface weather charts?

- a) By annotations from the text part of the chart
- b) By alignment of lines of warm- and cold fronts
- c) By alignment and distance of isobaric lines
- d) By alignment and distance of hypsometric lines

35. The measurement of altitude is based on the change of the...

- a) Static pressure
- b) Dynamic pressure
- c) Differential pressure
- d) Total pressure

36. 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

37. In case of radio communication failure within a CTR (control zone), the pilot has to ...

- a) Squawk transponder code A 7500
- b) This has no consequences while in VMC
- c) Continue the ride according to last clearance; in case of imminent danger land immediately
- d) Maintain current altitude until leaving the control zone

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38. 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)

39. What effect has air temperature on the carrying force and on maximum take-off mass of a balloon?

- a) Maximum take-off mass is higher at low temperatures
- b) Maximum take-off mass is lower at low temperatures
- c) Carrying force is higher at low temperatures
- d) Carrying force is lower at low temperatures

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

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

41. Urgency messages are defined as...

- a) Messages concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance
- b) Messages concerning urgent spare parts which are needed for a continuation of flight and which need to be ordered in advance
- c) Messages concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight
- d) Information concerning the apron personnel and which imply an imminent danger to landing aircraft

42. 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

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43. An inversion layer close to the ground can be caused by...

- a) Ground cooling during the night
- b) Large-scale lifting of air
- c) Thickening of clouds in medium layers
- d) Intensifying and gusting winds

44. Which abbreviation is used for the term "obstacle"?

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

45. 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

46. 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

47. Which of the following documents have to be on board for an international flight? a) Certificate of aircraft registration b) Certificate of airworthiness c) Airworthiness review certificate d) EASA Form-1 e) Airplane logbook f) Appropriate papers for every crew member g) Technical logbook

- a) a, b, c, e, f
- b) d, f, g
- c) b, c, d, e, f, g
- d) a, b, e, g

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

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

49. 1000 ft equal...

- a) 3000 m
- b) 300 m
- c) 30 km
- d) 30 m

50. 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

51. 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

52. In what case is the pilot allowed to abbreviate the call sign of his aircraft?

- a) After the ground station has used the abbreviation
- b) Within controlled airspace
- c) If there is little traffic in the traffic circuit
- d) After passing the first reporting point

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53. 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

54. 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 GPS or radio navigation to continue ride in clouds
- c) Use next best chance for landing
- d) Break through the clouds and continue above clouds

55. 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

56. 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

57. 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

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58. 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

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

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

60. At temperature below 0 °C the pressure at the burner is at 0.2 MPa (2 bar). Is take-off permissible with the hot air balloon?

- a) No, pressure at burner is too low
- b) Only with double-burner system installed
- c) Yes, at low temperatures a low hull temperature is sufficient
- d) Yes, not a problem

61. 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

62. 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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63. 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°

64. 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

65. 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

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

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

67. Aerostatic lift, amongst other factors, depends on...

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

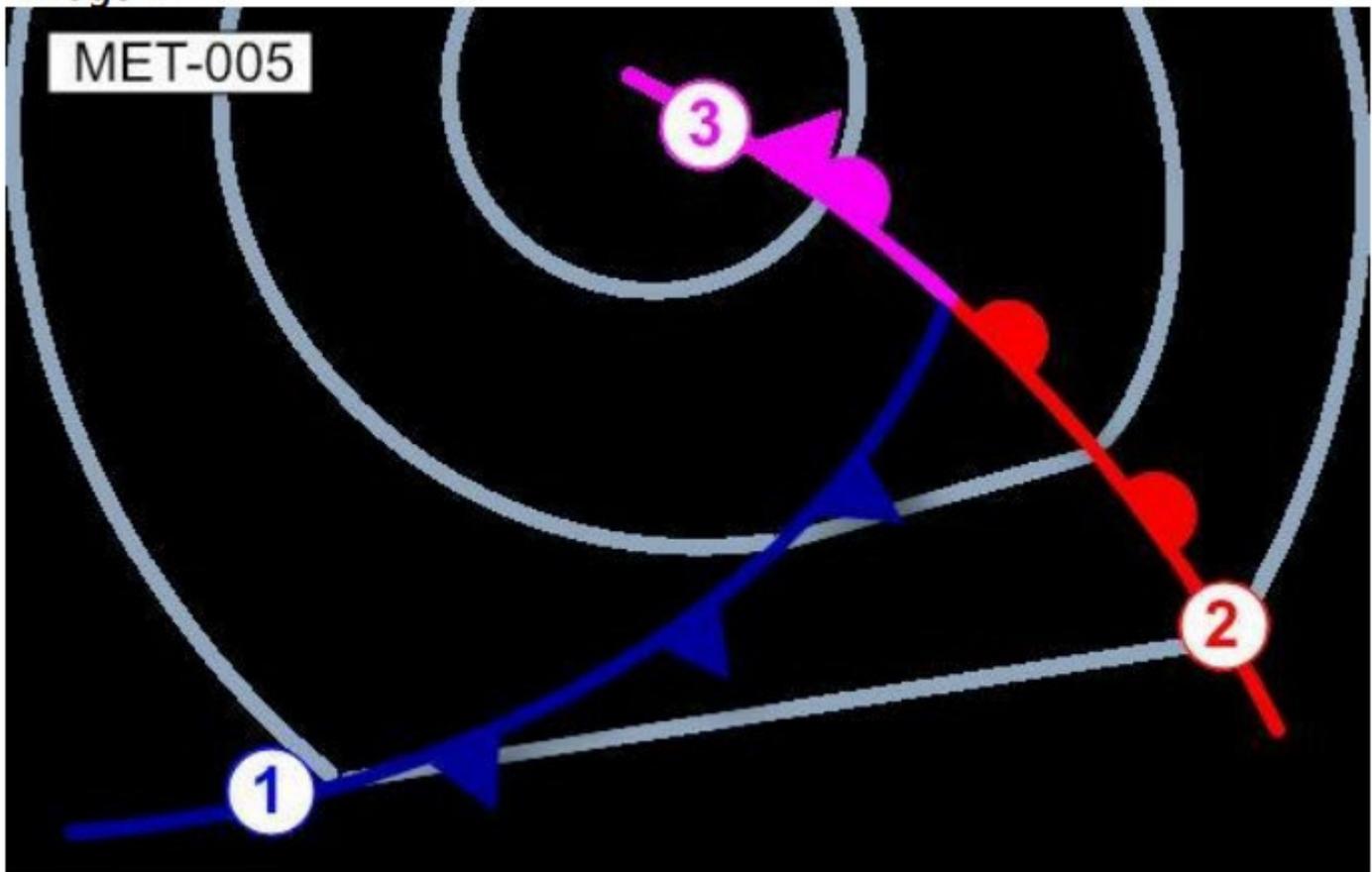
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68. The symbol labeled (3) as shown in the picture is a / an... See figure (MET-005)



- a) Occlusion
- b) Cold front
- c) Warm front
- d) Front aloft

69. Which of the following factors affects the reception of VHF transmissions?

- a) Altitude
- b) Twilight error
- c) Shoreline effect
- d) Height of ionosphere

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70. Which characteristic is important when choosing sunglasses used by pilots?

- a) Curved sidepiece
- b) Unbreakable
- c) No UV filter
- d) Non-polarised

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Response Scheme

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

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

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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: _____		