

# Exam simulation

SPL - Sailplane Pilot License - Operational Procedures



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STUDENT NAME:

DATE AND TIME:

## 01. What is the meaning of the abbreviation "VMC"?

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

## 02. While planning a cross country gliding flight, what ground structure should be avoided en route?

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- a) Stone quarries and large sand areas
- b) Highways, railroad tracks and channels
- c) Moist ground, water areas, marsh areas
- d) Areas with buildings, concrete and asphalt

## 03. What frontal line divides subtropical air from polar cold air, in particular across Central Europe?

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- a) Warm front
- b) Cold front
- c) Occlusion
- d) Polar front

## 04. How do spread and relative humidity change with increasing temperature?

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- a) Spread remains constant, relative humidity increases
- b) Spread remains constant, relative humidity decreases
- c) Spread increases, relative humidity decreases
- d) Spread increases, relative humidity increases

## 05. Which statement about induced drag during the horizontal cruise flight is correct?

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- a) Induced drag decreases with increasing airspeed
- b) Induced drag has a minimum at a certain speed and increases at higher as well as lower speeds
- c) Induced drag has a maximum at a certain speed and decreases at higher as well as lower speeds
- d) Induced drag increases with increasing airspeed

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## 06. UTC is...

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- a) A zonal time
- b) Local mean time at a specific point on Earth
- c) An obligatory time used in aviation
- d) A local time in Central Europe

## 07. What is the call sign of the surface movement control?

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

## 08. What describes "wing loading"?

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- a) Wing area per weight
- b) Drag per weight
- c) Weight per wing area
- d) Drag per wing area

## 09. What is the meaning of the phrase "Correction"?

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- a) I have received all of your last transmission
- b) I understand your message and will comply with it
- c) Permission for proposed action is granted
- d) An error has been made in this transmission. The correct version is...

## 10. After getting around a turning point, what should a glider pilot be prepared for?

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- a) For weakening thermals due to the progressing time
- b) For a changed horizontal picture due to lower cloud bases
- c) For increased cloud dissipation due to the progressing time
- d) For a changed cloud picture due to the apparently changed position of the sun

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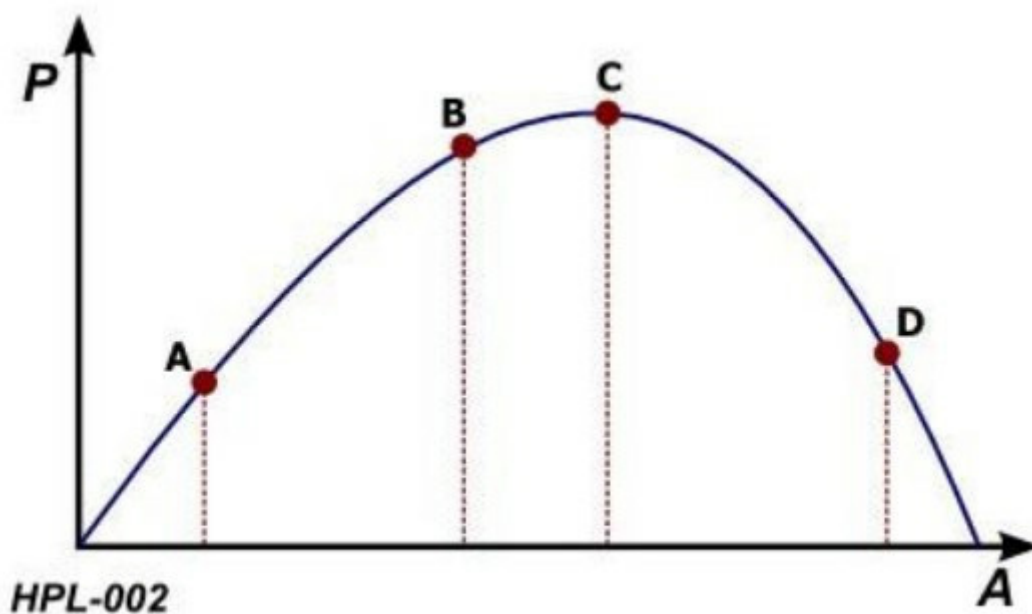


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11. What is the correct way of acknowledging the instruction "DZF after lift-off climb straight ahead until 2500 feet before turning right heading 220 degrees, wind 090 degrees, 5 knots, runway 12, cleared for take-off"?

- a) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots
- 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, runway 12, cleared for take-off

12. The ideal level of arousal is at which point in the diagram? See figure (HPL- 002) P = Performance A = Arousal / Stress



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

13. Which altitude is displayed on the altimeter when set to a specific QNH?

- a) Altitude in relation to mean sea level
- b) Altitude in relation to the 1013.25 hPa datum
- c) Altitude in relation to the highest elevation within 10 km
- d) Altitude in relation to the air pressure at the reference airfield

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**14. Given: True course: 165°. TAS: 90 kt. Wind: 130°/20 kt. Distance: 153 NM. The true heading equals...**

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- a) 152°
- b) 158°
- c) 165°
- d) 126°

**15. In a co-ordinated turn, how is the relation between the load factor (n) and the stall speed (Vs)?**

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- a) N is smaller than 1, Vs is greater than in straight and level flight
- b) N is greater than 1, Vs is smaller than in straight and level flight
- c) N is greater than 1, Vs is greater than in straight and level flight
- d) N is smaller than 1, Vs is smaller than in straight and level flight

**16. Which of the following is NOT a risk factor for hypoxia?**

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- a) Blood donation
- b) Smoking
- c) Menstruation
- d) Diving

**17. What can be expected for the prevailing wind with isobars on a surface weather chart showing large distances?**

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- a) Low pressure gradients resulting in low prevailing wind
- b) Strong pressure gradients resulting in low prevailing wind
- c) Strong pressure gradients resulting in strong prevailing wind
- d) Low pressure gradients resulting in strong prevailing wind

**18. In case of a cable break during winch launch, what actions should be taken in the correct order?**

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- a) Decouple cable, thereafter push nose down; at heights up to 150m GND land straight ahead with increased speed
- b) Push firmly nose down, decouple cable, depending on terrain and wind decide for short pattern or landing straight ahead
- c) Initiate 180° turn and land opposite to runway heading in use, decouple cable before touch down
- d) Keep elevator pulled, stabilize on minimum speed and land on remaining field length

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**19. Which of the following landing areas is most suitable for an off-field landing?**

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- a) A field with ripe waving crops
- b) A meadow without livestock
- c) A light brown field with short crops
- d) A lake with an undisturbed surface

**20. What does a cloud coverage of "FEW" mean in a METAR weather report?**

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- a) 5 to 7 eighths
- b) 8 eighths
- c) 3 to 4 eighths
- d) 1 to 2 eighths

**21. The airspeed indicator is unservicable. The airplane may only be operated...**

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- a) If no maintenance organisation is around
- b) If only airfield patterns are flown
- c) When the airspeed indicator is fully functional again
- d) When a GPS with speed indication is used during flight

**22. What is the correct abbreviation of the call sign D-EAZF?**

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- a) AZF
- b) DZF
- c) DEA
- d) DEF

**23. Where is interference drag generated?**

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- a) At the ailerons
- b) At the gear
- c) At the wing root
- d) Near the wing tips

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## 24. Times are transmitted as...

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- a) Local time
- b) Time zone time
- c) UTC
- d) Standard time

## 25. What does the term "Red-out" mean?

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- a) "Red vision" during negative g-loads
- b) Falsified colour perception during sunrise and sunset
- c) Anaemia caused by an injury
- d) Rash during decompression sickness

## 26. The "swiss cheese model" can be used to explain the...

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- a) State of readiness of a pilot
- b) Procedure for an emergency landing
- c) Optimal problem solution
- d) Error chain

## 27. Which are the official basic units for horizontal distances used in aeronautical navigation and their abbreviations?

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- a) Nautical miles (NM), kilometers (km)
- b) Land miles (SM), sea miles (NM)
- c) Yards (yd), meters (m)
- d) Feet (ft), inches (in)

## 28. During initial winch launch, one wing of a glider plane gets ground contact. What action should be taken by the glider pilot?

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- a) Pull the elevator
- b) Decouple cable immediately
- c) Rudder in opposite direction
- d) Ailerons in opposite direction

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## 29. How is the balance of forces affected during a turn?

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- a) A lower lift force compensates for a lower net force as compared to level flight
- b) Lift force must be increased to compensate for the sum of centrifugal and gravitational force
- c) The horizontal component of the lift force during a turn is the centrifugal force
- d) The net force results from superposition of gravity and centripetal forces

## 30. A construction made of frames and stringer with a supporting skin is called...

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- a) Honeycomb structure
- b) Wood- or mixed construction
- c) Semi-monocoque construction
- d) Grid construction

## 31. The Pitot / static system is required to...

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- a) Prevent potential static buildup on the aircraft
- b) Measure total and static air pressure
- c) Prevent icing of the Pitot tube
- d) Correct the reading of the airspeed indicator to zero when the aircraft is static on the ground

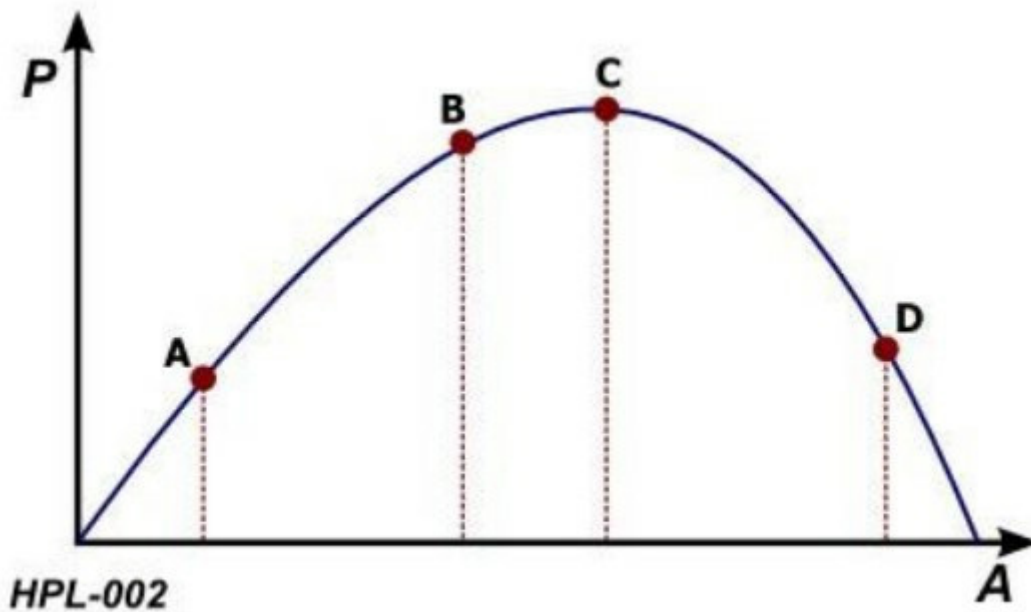
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32. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance  
A = Arousal / Stress



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

33. Which of the listed wing shapes has the lowest induced drag?

- a) Rectangular shape
- b) Trapezoidal shape
- c) Elliptical shape
- d) Double trapezoidal shape

34. Which force causes "wind"?

- a) Centrifugal force
- b) Pressure gradient force
- c) Coriolis force
- d) Thermal force

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**35. Which parts of an aircraft mainly affect the generation of induced drag?**

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- a) The front part of the fuselage
- b) The outer part of the ailerons
- c) The lower part of the gear
- d) The wing tips

**36. During a cross-country flight, you approach a downwind turning point. The point should be taken...**

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- a) As low as possible
- b) As steep as possible
- c) As high as possible
- d) With as little bank as possible

**37. A boundary between a cold polar air mass and a warm subtropical air mass showing no horizontal displacement is called...**

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- a) Cold front
- b) Warm front
- c) Stationary front
- d) Occluded front

**38. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 270° to a heading of 360°. At approximately which indication of the magnetic compass should the turn be terminated?**

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- a) 270°
- b) 030°
- c) 360°
- d) 330°

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

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

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**40. In order to improve the stall characteristics of an aircraft, the wing is twisted outwards (the angle of incidence varies spanwise). This is known as...**

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- a) Arrow shape
- b) V-form
- c) Geometric washout
- d) Aerodynamic washout

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

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

**42. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL110?**

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

**43. At what rate does the temperature change with increasing height according to ISA (ICAO Standard Atmosphere) within the troposphere?**

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- a) Decreases by 2° C / 1000 ft
- b) Increases by 2° C / 100 m
- c) Decreases by 2° C / 100 m
- d) Increases by 2° C / 1000 ft

**44. Despite several attempts, the landing gear can be extended, but not locked. How should the landing be conducted?**

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- a) Keep gear unlocked and perform normal landing
- b) Keep a firm grip on gear handle during normal landing
- c) Retract landing gear and perform belly landing with minimum speed
- d) Retract gear and perform belly landing with increased speed

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**45. Given: Ground speed (GS): 160 kt. True course (TC): 177°. Wind vector (W/WS): 140°/20 kt. The true heading (TH) equals...**

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- a) 180°
- b) 173°
- c) 169°
- d) 184°

**46. What does a readability of 2 indicate?**

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

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

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

**48. Which abbreviation is used for the term "obstacle"?**

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

**49. The angle between the magnetic course and the true course is called...**

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- a) WCA.
- b) Variation
- c) Inclination.
- d) Deviation.

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

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

**51. Which statement concerning the angle of attack is correct?**

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- a) Increasing the angle of attack results in decreasing lift
- b) The angle of attack cannot be negative
- c) A too large angle of attack may result in a loss of lift
- d) The angle of attack is constant throughout the flight

**52. Which statement about the airflow around an aerofoil is correct if the angle of attack decreases?**

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- a) The center of pressure moves aft
- b) The center of pressure moves forward
- c) The stagnation point moves down
- d) The stagnation point remains constant

**53. What is the difference in time when the sun moves 20° of longitude?**

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- a) 1:00 h
- b) 0:40 h
- c) 0:20 h
- d) 1:20 h

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

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- A 
- B 
- C 
- D 

PFP-062

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

55. Of what shape is a landing direction indicator?

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- a) T
- b) A straight arrow
- c) L
- d) An angled arrow

56. Two engine-driven aircraft are flying on crossing courses at the same altitude. Which one has to divert?

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- a) Both have to divert to the left
- b) The lighter one has to climb
- c) The heavier one has to climb
- d) Both have to divert to the right

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**57. The term 'True Course' (TC) is defined as...**

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- a) The direction from an arbitrary point on Earth to the magnetic north pole.
- b) The direction from an arbitrary point on Earth to the geographic North Pole.
- c) The angle between magnetic north and the course line.
- d) The angle between true north and the course line.

**58. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 030° to a heading of 180°. At approximately which indicated magnetic heading should the turn be terminated?**

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- a) 150°
- b) 180°
- c) 360°
- d) 210°

**59. A vertical speed indicator connected to a too big equalizing tank results in...**

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- a) Mechanical overload
- b) No indication
- c) Indication too low
- d) Indication too high

**60. What kind of reduction in visibility is not very sensitive to changes in temperature?**

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- a) Radiation fog (FG)
- b) Mist (BR)
- c) Patches of fog (BCFG)
- d) Haze (HZ)

**61. The connection between middle ear and nose and throat region is called...**

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- a) Inner ear
- b) Eardrum
- c) Cochlea
- d) Eustachian tube

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## 62. The rotational axis of the Earth runs through the...

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- a) Magnetic north pole and on the geographic South Pole.
- b) Magnetic north pole and on the magnetic south pole.
- c) Geographic North Pole and on the magnetic south pole.
- d) Geographic North Pole and on the geographic South Pole.

## 63. What is the correct term for the system which, among others, controls breathing, digestion, and heart frequency?

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- a) Critical nervous system
- b) Autonomic nervous system
- c) Automatical nervous system
- d) Compliant nervous system

## 64. How often shall a blind transmission be made?

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

## 65. The term "ceiling" is defined as the...

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- a) Height of the base of the highest layer of clouds covering more than half of the sky below 20000 ft.
- b) Height of the base of the lowest layer of clouds covering more than half of the sky below 10000 ft.
- c) Height of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.
- d) Altitude of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.

## 66. Which of the following conditions are most favourable for ice accretion?

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- a) Temperatures between 0° C and -12° C, presence of supercooled water droplets (clouds)
- b) Temperatures below 0° C, strong wind, sky clear of clouds
- c) Temperatures between -20° C and -40° C, presence of ice crystals (Ci clouds)
- d) Temperatures between +10° C and -30° C, presence of hail (clouds)

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## 67. What is an indication for a macho attitude?

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- a) Risky flight maneuvers to impress spectators on ground
- b) Comprehensive risk assessment when faced with unfamiliar situations
- c) Quick resignation in complex and critical situations
- d) Careful walkaround procedure

## 68. Which statement is correct with regard to the polar axis of the Earth?

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- a) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is perpendicular to the plane of the equator
- b) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is at an angle of  $66.5^\circ$  to the plane of the equator
- c) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is at an angle of  $23.5^\circ$  to the plane of the equator
- d) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is perpendicular to the plane of the equator

## 69. From which altitude on does the body usually react to the decreasing atmospheric pressure?

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- a) 2000 feet
- b) 10000 feet
- c) 12000 feet
- d) 7000 feet

## 70. What clouds and weather may result from a humid and unstable air mass, that is pushed against a chain of mountains by the predominant wind and forced to rise?

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- a) Embedded CB with thunderstorms and showers of hail and/or rain
- b) Smooth, unstructured NS cloud with light drizzle or snow (during winter)
- c) Thin Altostratus and Cirrostratus clouds with light and steady precipitation
- d) Overcast low stratus (high fog) with no precipitation

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## Response Scheme

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

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