

# Exam simulation

SPL - Sailplane Pilot License - Human Performance and limitations



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STUDENT NAME:

DATE AND TIME:

## 01. Unless the aircraft is equipped and certified accordingly...

- a) Flight into forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, the flight may be continued as long as visual meteorological conditions are maintained.
- b) Flight into known or forecast icing conditions is only allowed as long as it is ensured that the aircraft can still be operated without performance degradation.
- c) Flight into known or forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, it should be left without delay.
- d) Flight into areas of precipitation is prohibited.

## 02. A risk factor for decompression sickness is...

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

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

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

## 04. Information about maximum allowed airspeeds can be found where?

- a) Airspeed indicator, cockpit panel and AIP part ENR
- b) POH, approach chart, vertical speed indicator
- c) POH and posting in briefing room
- d) POH, Cockpit panel, airspeed indicator

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## 05. What situation is called "over-development" in a weather report?

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- a) Change from blue thermals to cloudy thermals during the afternoon
- b) Development of a thermal low to a storm depression
- c) Vertical development of Cumulus clouds to rain showers
- d) Widespreading of Cumulus clouds below an inversion layer

## 06. The movement of air flowing apart is called...

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- a) Convergence.
- b) Concordence.
- c) Subsidence.
- d) Divergence.

## 07. What does a readability of 3 indicate?

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

## 08. The center of gravity (CG) defines...

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- a) The product of mass and balance arm
- b) The point on the longitudinal axis or its extension from which the centers of gravity of all masses are referenced.
- c) The point on the longitudinal axis or its extension from which the centers of gravity of all masses are referenced.
- d) The point through which the force of gravity is said to act on a mass.

## 09. Which statement regarding a spin is correct?

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- a) During recovery the ailerons should be kept neutral
- b) During the spin the speed constantly increases
- c) During recovery the ailerons should be crossed
- d) Only very old aeroplanes have a risk of spinning

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**10. Which section of the flight manual describes the basic empty mass of an aircraft?**

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- a) Limitations
- b) Normal procedures
- c) Weight and balance
- d) Performance

**11. 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.

**12. What process results in the formation of "advection fog"?**

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- a) Cold, moist air is being moved across warm ground areas
- b) Cold, moist air mixes with warm, moist air
- c) Prolonged radiation during nights clear of clouds
- d) Warm, moist air is moved across cold ground areas

**13. Where can the type of restriction for a restricted airspace be found?**

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- a) AIC
- b) ICAO chart 1:500000
- c) AIP
- d) NOTAM

**14. An altitude of 4500 ft is transmitted as...**

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- a) Four five thousand.
- b) Four five zero zero.
- c) Four thousand five zero zero.
- d) Four thousand five hundred.

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**15. 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°

**16. Which are the properties of a Mercator chart?**

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- a) The scale is constant, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- b) The scales increases with latitude, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- c) The scales increases with latitude, great circles are depicted as straight lines, rhumb lines are depicted as curved lines
- d) The scale is constant, great circles are depicted as straight lines, rhumb lines are depicted as curved lines

**17. What cloud sequence can typically be observed during the passage of a warm front?**

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- a) Wind becoming calm, dissipation of clouds and warming during summer; formation of extended high fog layers during winter
- b) Squall line with showers of rain and thunderstorms (Cb), gusting wind followed by cumulus clouds with isolated showers of rain
- c) Cirrus, thickening altostratus and altocumulus clouds, lowering cloud base with rain, nimbostratus
- d) In coastal areas during daytime wind from the coast and forming of cumulus clouds, dissipation of clouds during evening and night

**18. Which transponder code indicates a radio failure?**

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

**19. What pattern can be found at the stagnation point?**

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- a) The boundary layer starts separating on the upper surface of the profile
- b) All aerodynamic forces can be considered as attacking at this single point
- c) The laminar boundary layer changes into a turbulent boundary layer
- d) Streamlines are divided into airflow above and below the profile

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## 20. The pressure at MSL in ISA conditions is...

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- a) 1013.25 hPa.
- b) 113.25 hPa.
- c) 15 hPa.
- d) 1123 hPa.

## 21. 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.

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

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- a) Continually increasing pressure
- b) Shortly decreasing, thereafter increasing pressure
- c) Continually decreasing pressure
- d) Constant pressure pattern

## 23. Which statement about a rhumb line is correct?

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- a) A rhumb line is a great circle intersecting the the equator with 45° angle.
- b) The center of a complete cycle of a rhumb line is always the Earth's center.
- c) A rhumb line cuts each meridian at the same angle.
- d) The shortest track between two points along the Earth's surface follows a rhumb line.

## 24. What is the function of the white blood cells (leucocytes)?

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- a) Immune defense
- b) Blood coagulation
- c) Oxygen transport
- d) Blood sugar regulation

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## 25. Which answer is correct concerning stress?

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- a) Everybody reacts to stress in the same manner
- b) Stress and its different symptoms are irrelevant for flight safety
- c) Stress can occur if there seems to be no solution for a given problem
- d) Training and experience have no influence on the occurrence of stress

## 26. An aircraft must be loaded and operated in such a way that the center of gravity (CG) stays within the approved limits during all phases of flight. This is done to ensure...

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- a) That the aircraft does not exceed the maximum permissible airspeed during a descent
- b) Both stability and controllability of the aircraft.
- c) That the aircraft does not tip over on its tail while it is being loaded.
- d) That the aircraft does not stall.

## 27. While planning a cross country gliding flight, what ground structure should be avoided enroute?

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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.

## 28. The term "center of gravity" is defined as...

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- a) Another designation for the neutral point.
- b) The heaviest point on an aeroplane.
- c) Half the distance between the neutral point and the datum line.
- d) Half the distance between the neutral point and the datum line.

## 29. What change of wind direction can be expected during the passage of a polar front low in Central Europe?

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- a) Backing wind during passage of the warm front, veering wind during passage of the cold front
- b) Veering wind during passage of the warm front, veering wind during passage of the cold front
- c) Veering wind during passage of the warm front, backing wind during passage of the cold front
- d) Backing wind during passage of the warm front, backing wind during passage of the cold front

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## 30. What is the meaning of the phrase "Approved"?

---

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

## 31. A wind shear is...

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

## 32. After getting around a turning point, what should a glider pilot be prepared for? (2,00 P.)

---

- 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

## 33. In which way does the position of the center of pressure move at a positively shaped profile with increasing angle of attack?

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- a) It moves to the wing tips
- b) It moves forward until reaching the critical angle of attack
- c) It moves forward until reaching the critical angle of attack
- d) It moves forward first, then backward

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

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

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**35. The directional information "12 o'clock" is correctly transmitted as...**

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- a) One two.
- b) Twelve o'clock.
- c) One two hundred.
- d) One two o'clock

**36. What pressure pattern can be observed during the passage of a polar front low?**

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- a) Rising pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- b) Rising pressure in front of the warm front, rising pressure within the warm sector, falling pressure behind the cold front
- c) Falling pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- d) Falling pressure in front of the warm front, constant pressure within the warm sector, falling pressure behind the cold front

**37. Which of the following options is likely to produce large induced drag?**

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- a) Large aspect ratio
- b) Small aspect ratio
- c) Low lift coefficients
- d) Tapered wings

**38. 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

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

---

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



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## 40. 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.

## 41. The distance between two airports is 220 NM. On an aeronautical navigation chart the pilot measures 40.7 cm for this distance. The chart scale is...

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- a) 1 : 500000
- b) 1 : 1000000.
- c) 1 : 250000.
- d) 1 : 2000000.

## 42. How can a pilot confirm a search and rescue signal on ground in flight?

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- a) Push the rudder in both directions multiple times
- b) Fly in a parabolic flight path multiple times
- c) Rock the wings
- d) Deploy and retract the landing flaps multiple times

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

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

## 44. The shown NOTAM is valid until... A) 1024/13 B) 1305211200 C) 1305211400 E) STOCKERAU VOR STO 113.00 UNSERVICEABLE.

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- a) 13/10/2013 00:00 UTC.
- b) 21/05/2014 13:00 UTC.
- c) 21/05/2013 14:00 UTC.
- d) 13/05/2013 12:00 UTC.

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**45. Which of the following qualities are influenced by stress? 1. Attention 2. Concentration 3. Responsiveness 4. Memory**

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- a) .1, 2, 3
- b) .2, 4
- c) 1
- d) 1, 2, 3, 4

**46. Which effect does a decreasing airspeed have on the induced drag during a horizontal and stable cruise flight?**

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- a) The induced drag will slightly decrease
- b) The induced drag will collapse
- c) The induced drag will increase
- d) The induced drag will remain constant

**47. How can a wind direction indicator be marked for better visibility?**

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- a) The wind direction indicator may be mounted on top of the control tower.
- b) The wind direction indicator could be made from green materials.
- c) The wind direction indicator could be surrounded by a white circle.
- d) The wind direction indicator could be located on a big black surface.

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**48. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PFP-024) Siehe Anlage 3**

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A4604/11 NOTAMN

Q)

EDWW/QROLP/IV/NBO/W/000/095/5155N01037E004

A) EDWW

B) 1111180800 C) 1111181200

E) OVERFLYING PROHIBITED FOR ALL TRAFFIC RADIUS  
3.35NM CENTERED AROUND 515436N 0103725E DUE  
TO DEMOLITION OF EXPLOSIVES AT ECKERTHAL,  
(25NM S BRAUNSCHWEIG NDB BRU) .

F) GND

G) 9500 FT AMSL

- a) Altitude 9500 ft MSL
- b) Flight Level 95
- c) Altitude 9500 m MSL
- d) Height 9500 ft

**49. What color has the emergency hood release handle?**

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- a) Green
- b) Red
- c) Yellow
- d) Blue

**50. Which weather phenomenon is typically associated with wind shear?**

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- a) Fog
- b) Stable high pressure areas.
- c) Invernal warm front.
- d) Thunderstorms.

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

---

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

**52. Where are the two polar circles?**

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- a) 23.5° north and south of the poles
- b) 23.5° north and south of the equator
- c) At a latitude of 20.5°S and 20.5°N
- d) 20.5° south of the poles

**53. Assume two arbitrary points A and B on the same parallel of latitude, but not on the equator. Point A is located on 010°E and point B on 020°E. The rumb line distance between A and B is always...**

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- a) Less than 300 NM.
- b) Less than 600 NM.
- c) More than 600 NM.
- d) More than 300 NM.

**54. What clouds and weather can typically be observed during the passage of a cold front?**

---

- a) Wind becoming calm, dissipation of clouds and warming during summer; formation of extended high fog layers during winter
- b) Cirrus, thickening altostratus and altocumulus clouds, lowering cloud base with rain, nimbostratus
- c) In coastal areas during daytime wind from the coast and forming of cumulus clouds, dissipation of clouds during evening and night
- d) Strongly developed cumulus clouds (Cb) with showers of rain and thunderstorms, gusting wind followed by cumulus clouds with isolated showers of rain

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

---

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

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## 56. How are two parallel runways designated?

---

- a) The left runway gets the suffix "L", the right runway remains unchanged
- b) The left runway gets the suffix "L", the right runway "R"
- c) The left runway remains unchanged, the right runway designator is increased by 1
- d) The left runway gets the suffix "-1", the right runway "-2"

## 57. An aircraft is flying with a true airspeed (TAS) of 180 kt and a headwind component of 25 kt for 2 hours and 25 minutes. The distance flown equals...

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- a) 693 NM.
- b) 202 NM.
- c) 375 NM.
- d) 435 NM.

## 58. The elevator moves an aeroplane around the...

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- a) Vertical axis.
- b) Longitudinal axis.
- c) Elevator axis.
- d) Lateral axis.

## 59. During a high altitude flight (6000 m MSL), the glider pilot realizes that oxygen will be consumed within a few minutes. What actions should be taken by the glider pilot?

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- a) After depletion of oxygen, stay at that altitude no longer than 30 min
- b) At first indication of hypoxia, commence descent with maximum allowed speed
- c) Extend spoiler flaps, descent with maximum permissible speed
- d) Reduce oxygen flow by breathing slowly

## 60. Which of the following options states the working principle of a vertical speed indicator?

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- a) Measuring the present static air pressure and comparing it to the static air pressure inside a reservoir
- b) Measuring the vertical acceleration through the displacement of a gimbal-mounted mass
- c) Total air pressure is measured and compared to static pressure
- d) Static air pressure is measured and compared against a vacuum

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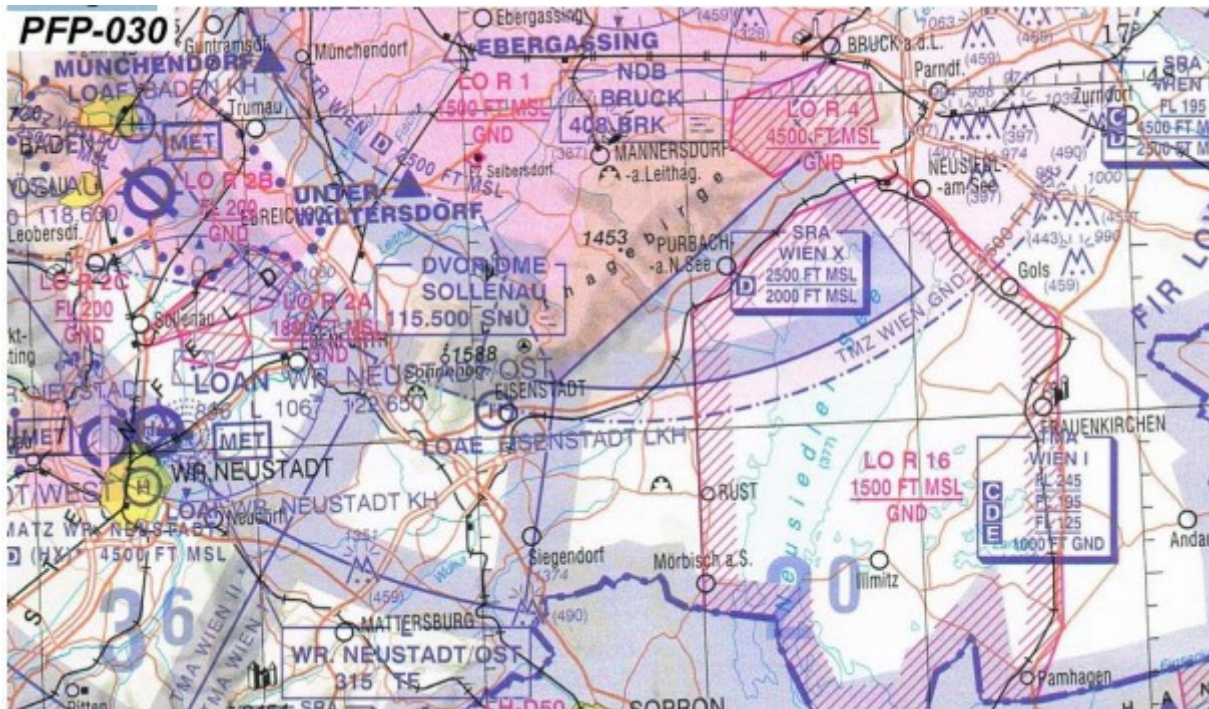
61. The sun moves 10° of longitude. What is the difference in time?

- a) 0.66 h
- b) 0.4 h
- c) 1 h
- d) 0.33 h

62. When landing with tailwind, the pilot has to...

- a) Approach with normal speed and shallow angle.
- b) Compensate tailwind by sideslip.
- c) Increase approach speed.
- d) Land with gear retracted to shorten ground roll distance

63. The upper limit of LO R 4 equals... See annex (PFP-030) Siehe Anlage 2



- a) 1.500 ft AGL
- b) 4.500 ft AGL.
- c) 4.500 ft MSL
- d) 1.500 ft MSL.

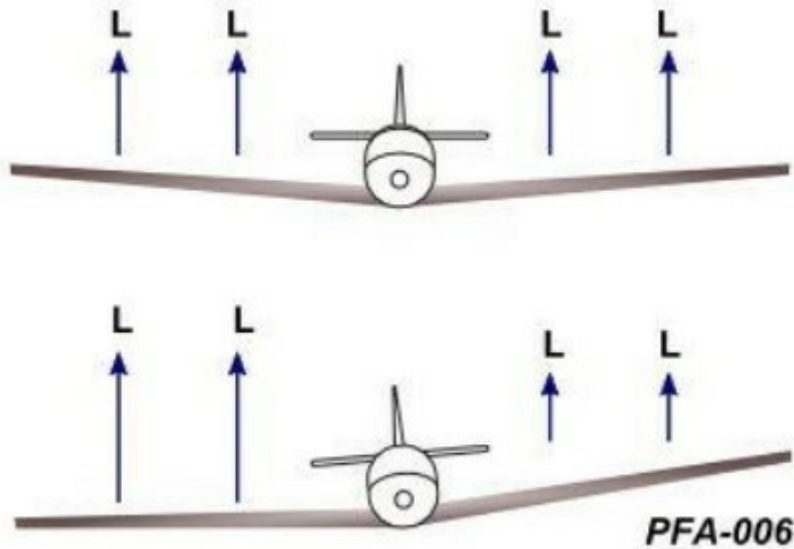
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64. Which constructive feature is shown in the figure? See figure (PFA-006) L: Lift Siehe Anlage 4



- a) Lateral stability by wing dihedral
- b) Differential aileron deflection
- c) Directional stability by lift generation
- d) Longitudinal stability by wing dihedral

65. Two aircraft of the same type, same grossweight and same configuration fly at different airspeeds. Which aircraft will cause more severe wake turbulence?

- a) The aircraft flying at lower altitude.
- b) The aircraft flying at higher speed.
- c) The aircraft flying at higher altitude
- d) The aircraft flying at slower speed

66. Visual illusions are mostly caused by...

- a) Binocular vision.
- b) Colour blindness.
- c) Rapid eye movements.
- d) Misinterpretation of the brain.

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**67. What is the correct term for an involuntary and stereotypical reaction of an organism to the stimulation of a receptor?**

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- a) Reduction
- b) Coherence
- c) Virulence
- d) Reflex

**68. How does a laminar boundary layer differ from a turbulent boundary layer?**

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- a) The laminar boundary layer is thinner and provides more skin-friction drag
- b) The turbulent boundary layer can follow the airfoil camber at higher angles of attack
- c) The laminar boundary layer produces lift, the turbulent boundary layer produces drag
- d) The turbulent boundary layer is thicker and provides less skin-friction drag

**69. 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

**70. 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) 400 NM
- b) 120 NM
- c) 216 NM
- d) 60 NM



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## Response Scheme

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

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