

# Exam simulation

SPL - Sailplane Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

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

- 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...

## 02. What is the purpose of "interception lines" in visual navigation?

- a) They are used as easily recognizable guidance upon a possible loss of orientation
- b) They help to continue the flight when flight visibility drops below VFR minima
- c) To mark the next available en-route airport during the flight
- d) To visualize the range limitation from the departure aerodrome

## 03. Above the friction layer, with a prevailing pressure gradient, the wind direction is...

- a) At an angle of 30° to the isobars towards low pressure.
- b) Perpendicular to the isobars.
- c) Parallel to the isobars.
- d) Perpendicular to the isohypses.

## 04. What weather development will result from convergence at ground level?

- a) Ascending air and cloud formation
- b) Descending air and cloud dissipation
- c) Ascending air and cloud dissipation
- d) Descending air and cloud formation

## 05. Rudder deflections result in a turn of the aeroplane around the...

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

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**06. 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

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**07. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?**

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- a) Roger
- b) Squawk 4321, 131.325
- c) Squawk 4321, wilco
- d) Wilco

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**08. Which direction corresponds to 'compass north' (CN)?**

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- a) The most northerly part of the magnetic compass in the aircraft, where the reading takes place
- b) The direction to which the direct reading compass aligns due to earth's and aircraft's magnetic fields
- c) The angle between the aircraft heading and magnetic north
- d) The direction from an arbitrary point on Earth to the geographical North Pole

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**09. The term "tropopause" is defined as...**

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- a) The layer above the troposphere showing an increasing temperature.
- b) The height above which the temperature starts to decrease.
- c) The boundary area between the troposphere and the stratosphere.
- d) The boundary area between the mesosphere and the stratosphere.

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**10. Which levers in a glider's cockpit are indicated by the colors red, blue and green? Levers for usage of ...**

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- a) Gear, speed brakes and elevator trim tab.
- b) Speed brakes, cable release and elevator trim.
- c) Speed brakes, cabin hood lock and gear.
- d) Cabin hood release, speed brakes, elevator trim

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## 11. Distress messages are messages...

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- a) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- b) Concerning the operation or maintenance of facilities which are important for the safety and regularity of flight operations.
- c) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.
- d) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight.

## 12. The angle of attack is the angle between...

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- a) The chord line and the longitudinal axis of an aeroplane.
- b) The chord line and the oncoming airflow.
- c) The wing and the fuselage of an aeroplane
- d) The undisturbed airflow and the longitudinal axis of an aeroplane.

## 13. The ratio of span and mean chord length is referred to as...

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- a) Trapezium shape.
- b) Tapering.
- c) Aspect ratio.
- d) Wing sweep.

## 14. During a winch launch, after reaching full climb attitude, the airspeed indicator fails. What action should be taken by the glider pilot?

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- a) Continue launch to normal altitude, use horizontal image and airstream noise to conduct flight as planned
- b) Try to re-establish airspeed indication by abrupt changes of speed during launch
- c) Push elevator, decouple cable and perform short pattern with minimum speed
- d) Continue launch to normal altitude, use horizontal image and airstream noise for pattern and landing right away

## 15. The term "static pressure" is defined as pressure...

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- a) Inside the airplane cabin.
- b) Of undisturbed airflow
- c) Resulting from orderly flow of air particles.
- d) Sensed by the pitot tube.

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## 16. What factors may indicate a tendency to fog formation?

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- a) Strong winds, decreasing temperature
- b) Low spread, decreasing temperature
- c) Low pressure, increasing temperature
- d) Low spread, increasing temperature

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

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

## 18. 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...

## 19. A gliding plane being airtowed gets into an excessive high position behind the towing plane. What action by the glider pilot can prevent further danger for glider and towing plane?

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- a) Initiate a sideslip to reduce excessive height
- b) Pull strongly, thereafter decouple the cable
- c) Carefully extend spoiler flaps, steer glider back into normal position
- d) Push strongly to bring glider back to normal position

## 20. Exceeding the maximum allowed aircraft mass is...

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- a) Compensated by the pilot's control inputs.
- b) Only relevant if the excess is more than 10 %.
- c) Exceptionally permissible to avoid delays
- d) Not permissible and essentially dangerous

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**21. 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"?**

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- 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

**22. 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

**23. The elevator moves an aeroplane around the...**

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

**24. An aircraft cruises on a heading of 180° with a true airspeed of 100 kt. The wind comes from 180° with 30 kt. Neglecting instrument and position errors, which will be the approximate reading of the airspeed indicator?**

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- a) 130 kt
- b) 100 kt
- c) 30 kt
- d) 70 kt

**25. How do dew point and relative humidity change with decreasing temperature?**

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

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## 26. What pressure pattern may result from cold-air inflow in high tropospheric layers?

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- a) Alternating pressure
- b) Formation of a large ground low
- c) Formation of a high in the upper troposphere
- d) Formation of a low in the upper troposphere

## 27. 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.

## 28. The saturated adiabatic lapse rate should be assumed with a mean value of:

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- a) 1,0° C / 100 m.
- b) 0,6° C / 100 m.
- c) 2° C / 1000 ft.
- d) 0° C / 100 m.

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

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

## 30. Which approximate, geometrical form describes the shape of the Earth best for navigation systems?

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- a) Sphere of ecliptical shape
- b) Flat plate
- c) Perfect sphere
- d) Ellipsoid

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## 31. 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.

## 32. When a pilot gets into a strong downwind area during slope soaring, what action should be recommended?

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- a) Continue flight, downwinds around mountains only occur shortly
- b) Increase speed and head away from the ridge
- c) Increase speed and conduct landing parallel to ridge
- d) Increase speed and get closer to the ridge

## 33. During a right turn, the yaw string is drawn to the left from center position. By what rudder input can the string be centered again?

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- a) Less bank, less rudder in turn direction
- b) Less bank, more rudder in turn direction
- c) More bank, less rudder in turn direction
- d) More bank, more rudder in turn direction

## 34. About how many axes does an aircraft move and how are these axes called?

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- a) 3; vertical axis, lateral axis, longitudinal axis
- b) 4; vertical axis, lateral axis, longitudinal axis, axis of speed
- c) 3; x-axis, y-axis, z-axis
- d) 4; optical axis, imaginary axis, sagged axis, axis of evil

## 35. The fuselage structure may be damaged by...

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- a) Airspeed decreasing below a certain value.
- b) Neutralizing stick forces according to actual flight state
- c) Exceeding the manoeuvring speed in heavy gusts
- d) Stall after exceeding the maximum angle of attack.

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## 36. Urgency messages are messages...

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- a) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight
- b) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.
- c) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation.
- d) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation.

## 37. When flying into heavy snowfall, most dangerous will be the...

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- a) Sudden blockage of pitot-static system
- b) Sudden increase of airframe icing.
- c) Sudden increase in airplane mass
- d) Sudden loss of visibility

## 38. A flight is called a "visual flight", if the...

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- a) Visibility in flight is more than 5 km.
- b) Flight is conducted under visual flight rules.
- c) Visibility in flight is more than 8 km.
- d) Flight is conducted in visual meteorological conditions.

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

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

## 40. What is the function of the red blood cells (erythrocytes)?

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



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**41. During airtow, the gliding plane exceeds its maximum permissable speed. What action should be taken by the glider pilot?**

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- a) Extend spoiler flaps
- b) Message to airfield controller via radio
- c) Pull elevator to reduce speed
- d) Decouple cable immediately

**42. 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

**43. The balance arm is the horizontal distance between...**

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- a) The C.G. of a mass and the rear C.G. limit.
- b) The front C.G. limit and the datum line
- c) The front C.G. limit and the rear C.G. limit.
- d) The C.G. of a mass and the datum line.

**44. Electronic devices on board of an aeroplane have influence on the...**

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- a) Direct reading compass.
- b) Airspeed indicator.
- c) Turn coordinator
- d) Artificial horizon.

**45. What is the correct phrase with respect to wake turbulence to indicate that a light aircraft is following an aircraft of a higher wake turbulence category?**

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- a) Caution wake turbulence
- b) Be careful wake winds
- c) Danger jet blast
- d) Attention propwash

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## 46. Regarding the type of cloud, precipitation is classified as...

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- a) Showers of snow and rain.
- b) Prolonged rain and continuous rain.
- c) Rain and showers of rain.
- d) Light and heavy precipitation.

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

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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

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

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- a) .05,19°
- b) .20,28°
- c) .05°19'00"
- d) .20°28'00"

## 49. What is the status of the rules and procedures created by the EASA? (e.g. Part-SFCL, Part-MED)

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- a) They are not legally binding, they only serve as a guide
- b) Only after a ratification by individual EU member states they are legally binding
- c) They are part of the EU regulation and legally binding to all EU member states
- d) They have the same status as ICAO Annexes

## 50. Which of the following states the working principle of an airspeed indicator?

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- a) Dynamic air pressure is measured by the Pitot tube and converted into a speed indication by the airspeed indicator
- b) Total air pressure is measured by the static ports and converted into a speed indication by the airspeed indicator
- c) Total air pressure is measured and compared against static air pressure
- d) Static air pressure is measured and compared against a vacuum.

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

- 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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**52. The term "inclination" is defined as...**

- a) Deviation induced by electrical fields.
- b) Angle between magnetic and true north
- c) Angle between earth's magnetic field lines and horizontal plane.
- d) Angle between airplane's longitudinal axis and true north.

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**53. The trim wheel or lever in the cockpit is moved aft by the pilot. What effect does this action have on the trim tab and on the elevator?**

- a) The trim tab moves up, the elevator moves down
- b) The trim tab moves down, the elevator moves up
- c) The trim tab moves up, the elevator moves up
- d) The trim tab moves down, the elevator moves down

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**54. 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) ATC (air traffic control) AIS (aeronautical information service)
- d) AIS (aeronautical information service) SAR (search and rescue)

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**55. With Central European Time (CET) given as UTC+1, what UTC time corresponds to 1700 CET?**

- a) 1500 UTC.
- b) 1700 UTC.
- c) 1800 UTC.
- d) 1600 UTC.

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

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

**57. During airtow, in a turn the glider plane gets into an outward off-set position. What action should be taken by the glider pilot?**

- a) Return glider plane to a position behind towing plane by a smaller curve radius using strong inputs on rudder pedals
- b) Take up same bank angle as towing plane and return glider plane to a position behind towing plane using rudder pedals
- c) Bring back glider plane to intended turning attitude using rudder and ailerons, extend spoiler flaps to reduce speed
- d) Initiate sideslip and let glider plane be pushed back to a position behind towing plane by increased drag

**58. Which factor shortens landing distance?**

- a) Heavy rain
- b) High pressure altitude
- c) High density altitude
- d) Strong head wind

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**59. Given: True course: 270°. TAS: 100 kt. Wind: 090°/25 kt. Distance: 100 NM. The ground speed (GS) equals...**

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- a) 120 kt.
- b) 131 kt.
- c) 117 kt.
- d) 125 kt.

**60. What are the minimum distances to clouds for a VFR flight in airspace "B"?**

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- a) Horizontally 1.500 m, vertically 300 m
- b) Horizontally 1.500 m, vertically 1.000 m
- c) Horizontally 1.000 m, vertically 300 m
- d) Horizontally 1.000 m, vertically 1.500 ft

**61. The center of gravity has to be located...**

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- a) Behind the rear C.G. limit
- b) In front of the front C.G. limit.
- c) Right of the lateral C. G. limit.
- d) Between the front and the rear C.G. limit.

**62. What is the ISA standard pressure at FL 180 (5500 m)?**

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- a) 300 hPa
- b) 250 hPa
- c) 1013.25 hPa
- d) 500 hPa

**63. A risk factor for decompression sickness is...**

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

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**64. When air masses meet each other head on, how is this referred to and what air movements will follow?**

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- a) Convergence resulting in air being lifted
- b) Divergence resulting in air being lifted
- c) Divergence resulting in sinking air
- d) Divergence resulting in sinking air

**65. 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

**66. Which kinds of drag contribute to total drag?**

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- a) Interference drag and parasite drag
- b) Induced drag and parasite drag
- c) Induced drag, form drag, skin-friction drag
- d) Form drag, skin-friction drag, interference drag

**67. Temperatures will be given by meteorological aviation services in Europe in which unit?**

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- a) Gpdam
- b) Kelvin
- c) Degrees Centigrade ( $^{\circ}$  C)
- d) Degrees Fahrenheit

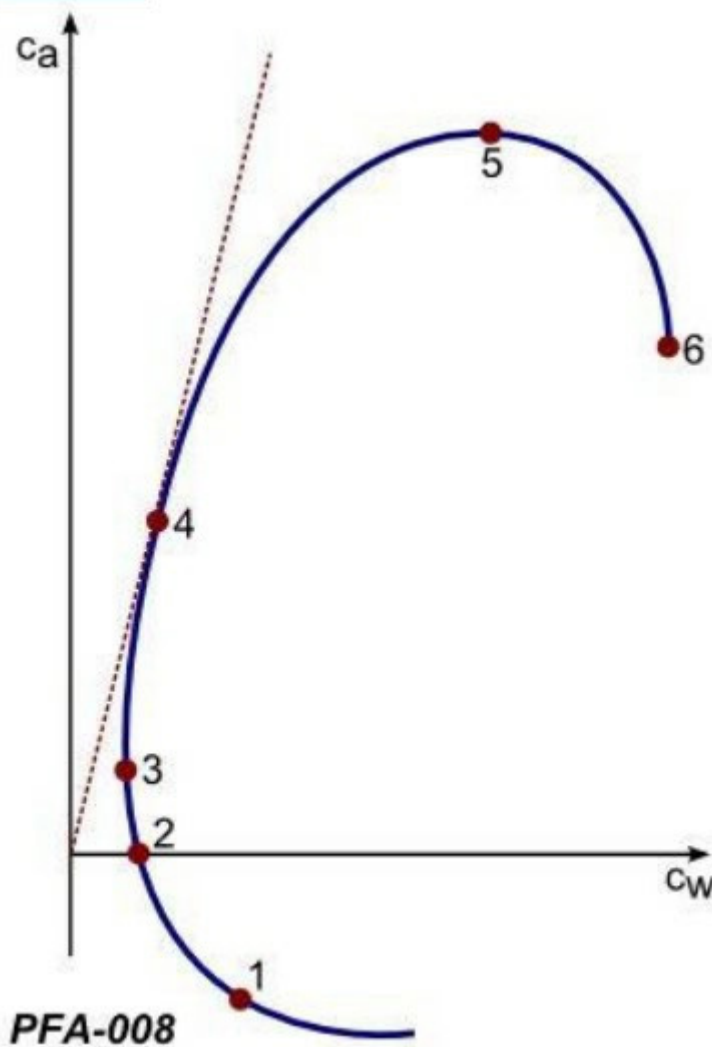
**68. What must be considered for cross-border flights?**

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- a) Transmission of hazard reports
- b) Requires flight plans
- c) Regular location messages
- d) Approved exceptions



69. Point number 5 in the figure indicates which flight state? See figure (PFA-008) Siehe Anlage 5



- a) Slow flight
- b) Best gliding angle
- c) Inverted flight
- d) Stall

70. Stabilization around the lateral axis during cruise is achieved by the...

- a) Wing flaps.
- b) Horizontal stabilizer
- c) Ailerons.
- d) Vertical rudder

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## Response Scheme

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

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



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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: _____		