

# Exam simulation

SPL - Sailplane Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

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**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...

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**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

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**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 isohypes.

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**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

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**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?**

- 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"?**

- 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)?**

- 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...**

- 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 ...**

- 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...

- 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.

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

- 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.

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

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

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

- 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

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

- 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?

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

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

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

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## 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...

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## 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?

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

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

- 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"?**

- 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?**

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

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

- 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?**

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

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

- 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?

- 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

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## 27. UTC is...

- 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.

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

- a)  $1,0^\circ \text{ C} / 100 \text{ m.}$
- b)  $0,6^\circ \text{ C} / 100 \text{ m.}$
- c)  $2^\circ \text{ C} / 1000 \text{ ft.}$
- d)  $0^\circ \text{ C} / 100 \text{ m.}$

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

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

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

- 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...

- 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.

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

- 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

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## 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?

- 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

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

- 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

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

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

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## 36. Urgency messages are messages...

- 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.

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

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

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

- 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.

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

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

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

- 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 permissible speed. What action should be taken by the glider pilot?**

- 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?**

- 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...**

- 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...**

- 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?**

- 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...**

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

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**47. 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

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

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

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

- 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

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

- 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/QROL/P/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...**

- 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"?**

- 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...**

- 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)?**

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

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

- 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?**

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

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**65. Which statement about induced drag during the horizontal cruise flight is correct?**

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

- 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

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

- a) Gpdam
- b) Kelvin
- c) Degrees Centigrade (° C)
- d) Degrees Fahrenheit

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

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

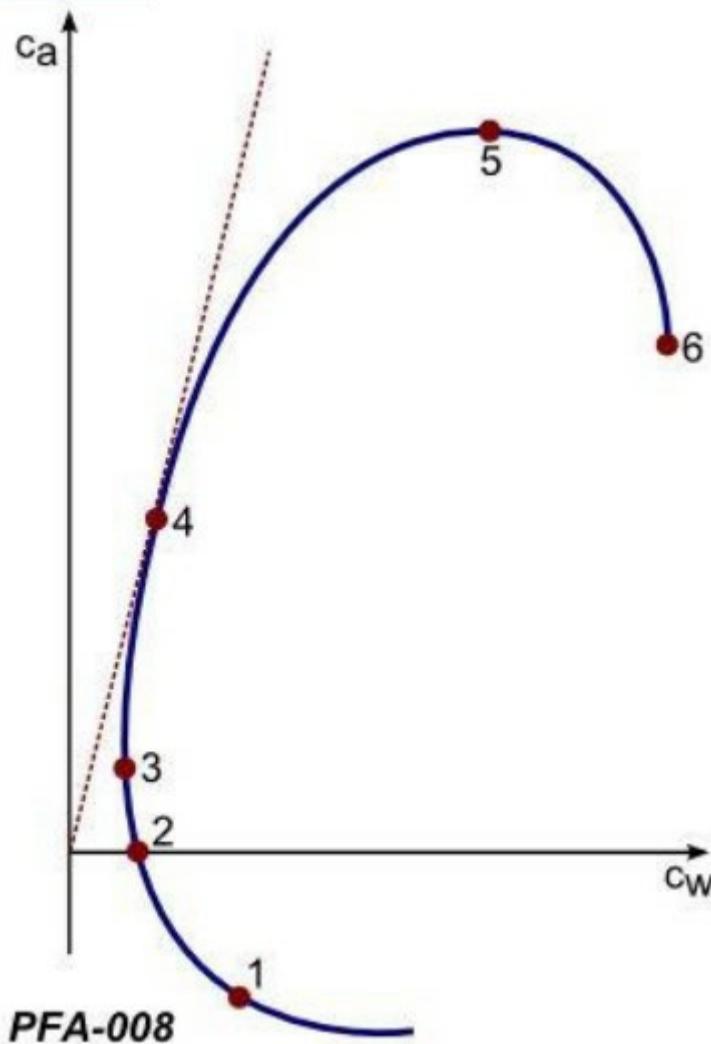
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69. Point number 5 in the figure indicates which flight state? See figure (PFA-008) Siehe Anlage 5



- 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: \_\_\_\_\_

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