

Exam simulation

SPL - Sailplane Pilot License - Operational Procedures



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STUDENT NAME:

DATE AND TIME:

01. Urgency messages are defined as...

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

02. How should a glider plane be parked when observing strong winds?

- a) Nose into the wind, keep and weigh tail down
- b) Nose into the wind, extend air brakes, secure rudders
- c) Downwind wing on the ground, weigh wing down, secure rudders
- d) Windward wing on the ground, weigh wing down, secure rudders

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

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

04. During final approach, you realize that you missed to extend the gear. How should the landing be conducted?

- a) You land without gear, and carefully touch down with minimum speed
- b) You extend the gear immediately and land as usual
- c) You retract flaps, extend the gear and land as usual
- d) You land without gear with higher than usual speed

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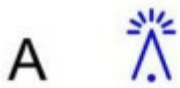


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05. Which kinds of drag contribute to total drag?

- 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

06. (For this question, please use annex PFP-061) According to ICAO, what symbol indicates a group of unlighted obstacles?



PFP-061

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

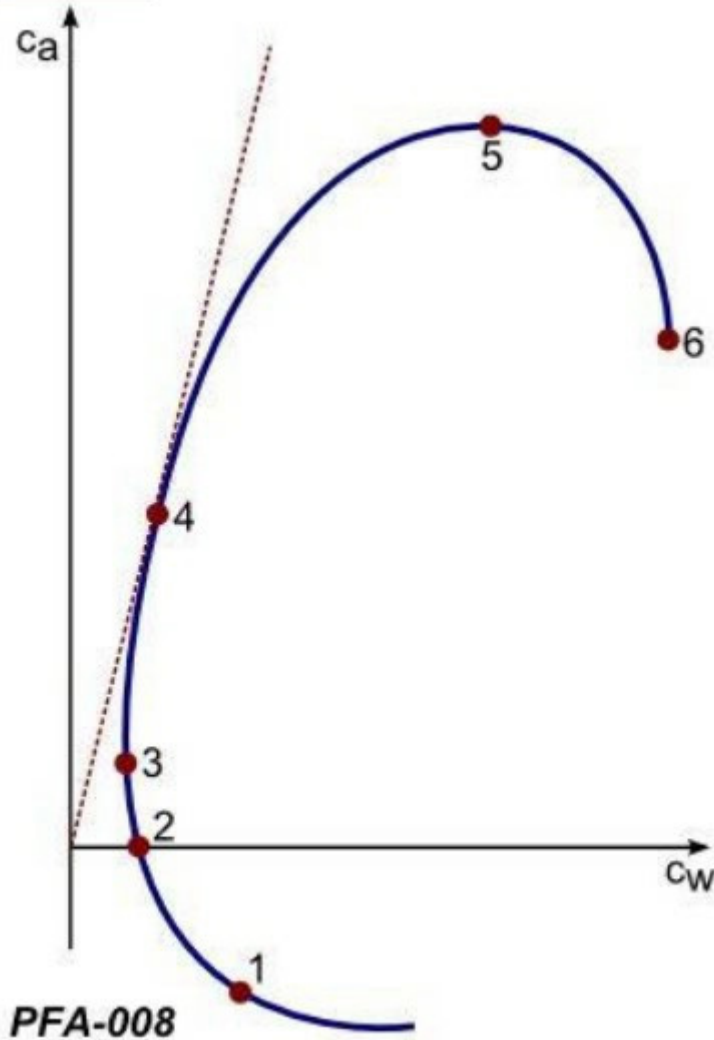
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07. Point number 1 in the figure indicates which flight state? See figure (PFA-008)



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

08. The dry adiabatic lapse rate has a value of...

- a) $0,65^{\circ} \text{ C} / 100 \text{ m}$
- b) $1,0^{\circ} \text{ C} / 100 \text{ m}$
- c) $2^{\circ} / 1000 \text{ ft}$
- d) $0,6^{\circ} \text{ C} / 100 \text{ m}$

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09. A pilot can contact FIS (flight information service)...

- a) By a personal visit.
- b) Via telephone.
- c) Via radio communication.
- d) Via internet.

10. Distress messages contain...

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

11. 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

12. Which of the following messages has the highest priority?

- a) Turn left
- b) Wind 300 degrees, 5 knots
- c) Request QDM
- d) QNH 1013

13. 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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14. During a flight, a flight plan can be filed at the...

- a) Search and Rescue Service (SAR)
- b) Flight Information Service (FIS)
- c) Next airport operator en-route
- d) Aeronautical Information Service (AIS)

15. 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

16. What is the correct phrase to begin a blind transmission?

- a) Listen
- b) Blind
- c) Transmitting blind
- d) No reception

17. 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...

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

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

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

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19. During a winch launch, just after stabilizing full climb attitude, the pull on cable suddenly stops. What action should be taken by the glider pilot?

- a) Push slightly, wait for pull on cable to be re-established
- b) Inform winch driver by alternate aileron input
- c) Push firmly and decouple cable immediately
- d) Pull on elevator to increase cable tension

20. In which situation is it NOT possible to achieve a pressure compensation between the middle ear and the environment?

- a) During a light and slow climb
- b) Breathing takes place using the mouth only
- c) All windows are completely closed
- d) The Eustachian tube is blocked

21. The aerodynamic rudder balance...

- a) Reduces the control surfaces
- b) Delays the stall
- c) Reduces the control stick forces
- d) Improves the rudder effectiveness

22. Under which circumstances is it more likely to accept higher risks?

- a) Due to group-dynamic effects
- b) If there is not enough information available
- c) During check flights due to a high level of nervousness
- d) During flight planning when excellent weather is forecast

23. What is the correct frequency for an initial distress message?

- a) Radar frequency
- b) Current frequency
- c) FIS frequency
- d) Emergency frequency

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24. The term "runway" is defined as a...

- a) Round area on an aerodrome prepared for the landing and take-off of aircraft
- b) Rectangular area on a land aerodrome prepared for the landing and take-off of helicopters.
- c) Rectangular area on a land aerodrome prepared for the landing and take-off of aircraft.
- d) Rectangular area on a land or water aerodrome prepared for the landing and take-off of aircraft.

25. What is the difference between spin and spiral dive?

- a) Spin: stall at inner wing, speed increasing rapidly; Spiral dive: airflow at both wings, speed constant
- b) Spin: stall at inner wing, speed constant; Spiral dive: airflow at both wings, speed increasing rapidly
- c) Spin: stall at outer wing, speed constant; Spiral dive: airflow at both wings, speed increasing rapidly
- d) Spin: stall at outer wing, speed increasing rapidly; Spiral dive: airflow at both wings, speed constant

26. The glide ratio of a sailplane can be improved by which measures?

- a) Higher airplane mass, thin airfoil, taped gaps between wing and fuselage
- b) Lower airplane mass, correct speed, retractable gear
- c) Cleaning, correct speed, retractable gear, taped gaps between wing and fuselage
- d) Forward C.G. position, correct speed, taped gaps between wing and fuselage

27. With only a slight crosswind, what is the danger at take-off after the departure of a heavy aeroplane?

- a) Wake turbulence rotate faster and higher
- b) Wake turbulence is amplified and distorted
- c) Wake turbulence twisting transverse to the runway
- d) Wake turbulence on or near the runway

28. 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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29. When do you expect wind shear?

- a) During an inversion
- b) When passing a warm front
- c) During a summer day with calm winds
- d) In calm wind in cold weather

30. What is referred to as torsion-stiffed leading edge?

- a) The part of the main cross-beam to support torsion forces
- b) Special shape of the leading edge
- c) The point where the torsion moment on a wing begins to decrease
- d) Both-side planked leading edge (from edge to cross-beam) to support torsion forces

31. What is the purpose of the secondary flight controls?

- a) To improve the performance characteristics of an aircraft and relieve the pilot of excessive control forces
- b) To improve the turn characteristics of an aircraft in the low speed regime during approach and landing
- c) To enable the pilot to control the aircraft's movements about its three axes
- d) To constitute a backup system for the primary flight controls

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

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

33. 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

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

- 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° 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° 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

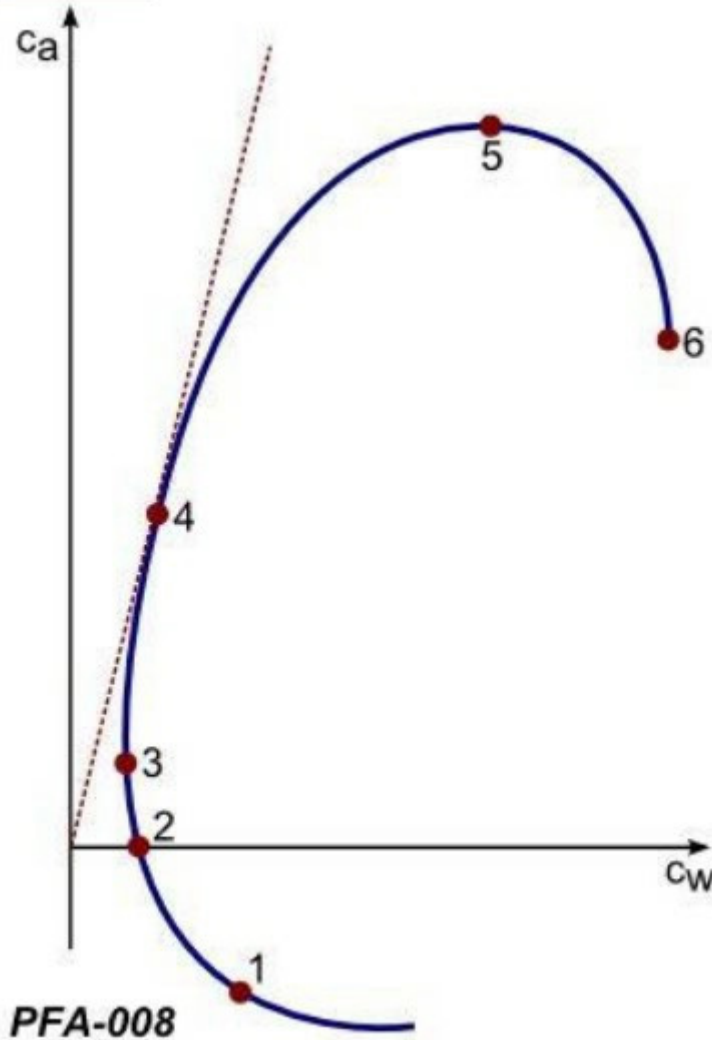
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35. Point number 5 in the figure indicates which flight state? See figure (PFA-008)



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

36. Off-field landing may be prone to accident when...

- a) The approach is conducted using distinct approach segments
- b) The decision is made above minimum safe altitude
- c) The approach is conducted onto a harvested corn field
- d) The decision to land off-field is made too late

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

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

38. Visual illusions are mostly caused by...

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

39. Where does the inclination reach its lowest value?

- a) At the geographic equator
- b) At the magnetic equator
- c) At the geographic poles
- d) At the magnetic poles

40. What pressure pattern can be observed at a lift-generating wing profile at positive angle of attack?

- a) Low pressure is created above, higher pressure below the profile
- b) Pressure above remains unchanged, higher pressure is created below the profile
- c) High pressure is created above, lower pressure below the profile
- d) Pressure below remains unchanged, lower pressure is created above the profile

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

- 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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42. Water ballast increases wing load by 40%. By what percentage does the minimum speed of the glider plane increase?

- a) 100%
- b) 40%
- c) 200%
- d) 18%

43. What distance can be covered during a glide in a glider plane with glide ratio 1/30 from a height of 1500 m? (Neglect wind and thermal effects)

- a) 30 km
- b) 45 NM
- c) 45 km
- d) 81 NM

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

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

45. Weather and operational information about the destination aerodrome can be obtained during the flight by...

- a) PIREP
- b) SIGMET
- c) ATIS
- d) VOLMET

46. The center of gravity (CG) defines...

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

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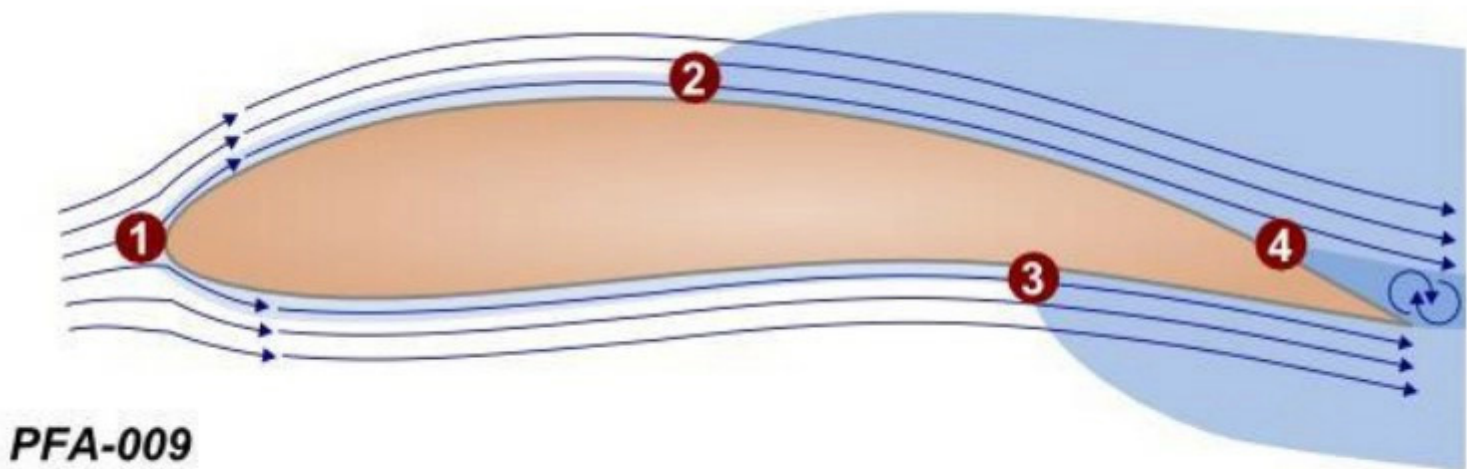
47. The empty weight and the corresponding center of gravity (CG) of an aircraft are initially determined...

- a) By weighing
- b) By calculation
- c) For one aircraft of a type only, since all aircraft of the same type have the same mass and CG position
- d) Through data provided by the aircraft manufacturer

48. The distance between the center of gravity and the datum is called...

- a) Lever
- b) Torque
- c) Span width
- d) Balance arm

49. Which point on the aerofoil is represented by number 1? See figure (PFA-009)



- a) Center of pressure
- b) Stagnation point
- c) Separation point
- d) Transition point

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50. When commencing a steep turn, what has to be considered by the pilot?

- a) After achieving bank angle, reduce yaw using opposite rudder
- b) Commence turn with reduced speed according to aimed bank angle
- c) Commence turn with increased speed according to aimed bank angle
- d) After achieving bank angle, push the elevator to increase speed

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

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

52. Which area could be crossed with certain restrictions?

- a) No-fly zone
- b) Restricted area
- c) Prohibited area
- d) Dangerous area

53. 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

54. What does the abbreviation "FIS" stand for?

- a) Flight information service
- b) Flashing information system
- c) Flight information system
- d) Flashing information service

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55. In which way may an altimeter subscale which is set to an incorrect QNH lead to an incorrect altimeter reading?

- a) If the subscale is set to a higher than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- b) If the subscale is set to a lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended
- c) If the subscale is set to a higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended
- d) If the subscale is set to a lower than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended

56. Differential aileron deflection is used to...

- a) Reduce wake turbulence
- b) Avoid a stall at low angles of attack
- c) Keep the adverse yaw low
- d) Increase the rate of descent

57. The rotational axis of the Earth runs through the...

- 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.

58. The maximum load according to the load sheet has been exceeded. What action has to be taken?

- a) Increase speed by 15%
- b) Reduce load
- c) Trim "pitch-down"
- d) Trim "pitch-up"

59. What is the parallax error?

- a) Wrong interpretation of instruments caused by the angle of vision
- b) Misperception of speed during taxiing
- c) Long-sightedness due to aging especially during night
- d) A decoding error in communication between pilots

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60. The mass loaded on the plane is lower than the minimum load required by the load sheet. What action has to be taken?

- a) Trim aircraft to "pitch down"
- b) Change pilot seat position
- c) Change incident angle of elevator
- d) Load ballast weight up to minimum load

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

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

62. What is referred to as mountain wind?

- a) Wind blowing down the mountain side during the night
- b) Wind blowing uphill from the valley during the night
- c) Wind blowing uphill from the valley during daytime
- d) Wind blowing down the mountain side during daytime

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

- 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

64. What has to be considered with regard to the center of gravity position?

- a) By moving the elevator trim tab, the center of gravity can be shifted into a correct position
- b) Only correct loading can assure a correct and safe center of gravity position
- c) The center of gravity's position can only be determined during flight
- d) By moving the aileron trim tab, the center of gravity can be shifted into a correct position

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65. Information about pressure patterns and frontal situation can be found in which chart?

- a) Significant Weather Chart (SWC)
- b) Wind chart
- c) Hypsometric chart
- d) Surface weather chart

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

- 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

67. What is the correct course of action when experiencing a radio failure in class D airspace?

- a) The flight has to be continued above 5000 feet complying with VFR flight rules or the airspace has to be left by the shortest route
- b) The flight has to be continued above 5000 feet complying with VFR flight rules or the airspace has to be left using a standard routing
- c) The flight has to be continued according to the last clearance complying with VFR rules or the airspace has to be left by the shortest route
- d) The flight has to be continued according to the last clearance complying with VFR flight rules or the airspace has to be left using a standard routing

68. What are the primary and the secondary effects of a rudder input to the left?

- a) Primary: yaw to the right Secondary: roll to the left
- b) Primary: yaw to the left Secondary: roll to the left
- c) Primary: yaw to the right Secondary: roll to the right
- d) Primary: yaw to the left Secondary: roll to the right

69. Along with other gliders, you are circling in a thermal updraft. Who determines the direction of circling?

- a) Circling is general to the left
- b) The glider who entered the updraft at first
- c) The glider with greatest bank angle
- d) The glider at highest altitude

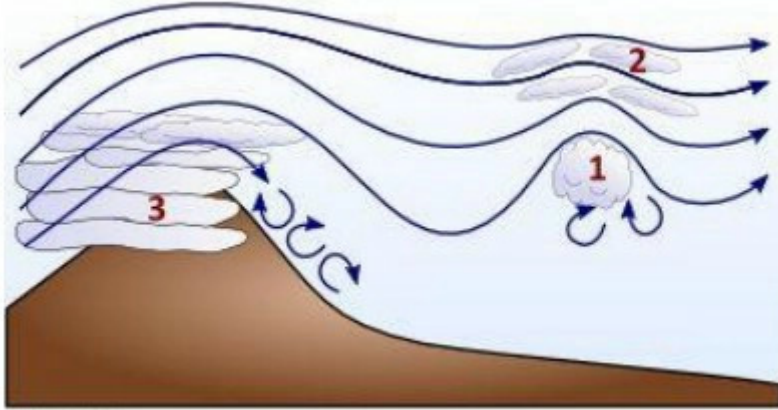
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70. What weather phenomenon designated by "2" has to be expected on the lee side during "Foehn" conditions?
See figure (MET-001)



- a) Cumulonimbus
- b) Altocumulus lenticularis
- c) Altocumulus Castellanus
- d) Nimbostratus

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Response Scheme

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

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