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SPL - Sailplane Pilot License - Air Law



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STUDENT NAME:

DATE AND TIME:

01. 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?

- 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

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

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

03. Where are the two polar circles?

- 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

04. The elevator moves an aeroplane around the...

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

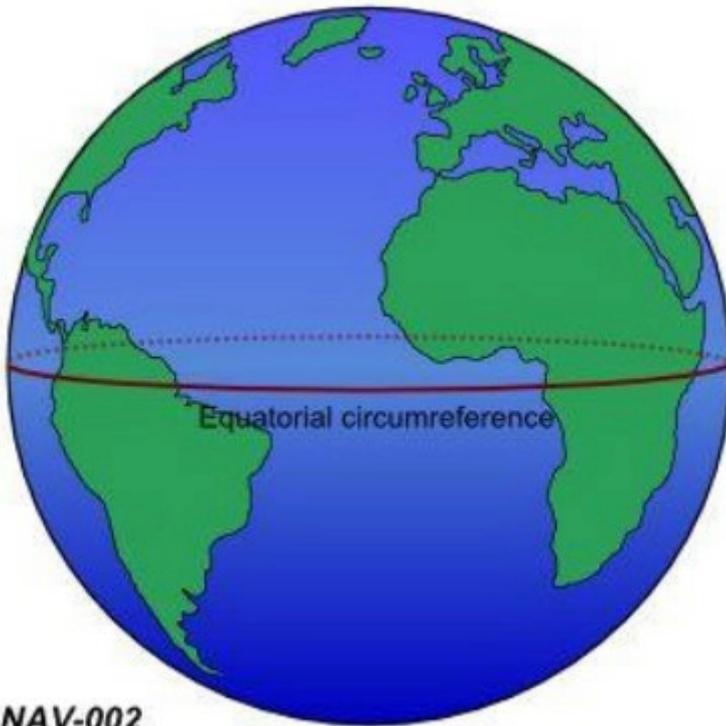
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05. The circumference of the Earth at the equator is approximately... See figure (NAV-002)



- a) 10800 km
- b) 12800 km
- c) 21600 NM
- d) 40000 NM

06. Electronic devices on board an aeroplane have influence on the...

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

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

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

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08. Which of the mentioned cockpit instruments is connected to the pitot tube?

- a) Direct-reading compass
- b) Altimeter
- c) Vertical speed indicator
- d) Airspeed indicator

09. Stability around which axis is mainly influenced by the centre of gravity's longitudinal position?

- a) Longitudinal axis
- b) Lateral axis
- c) Gravity axis
- d) Vertical axis

10. Which are the properties of a Mercator chart?

- 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

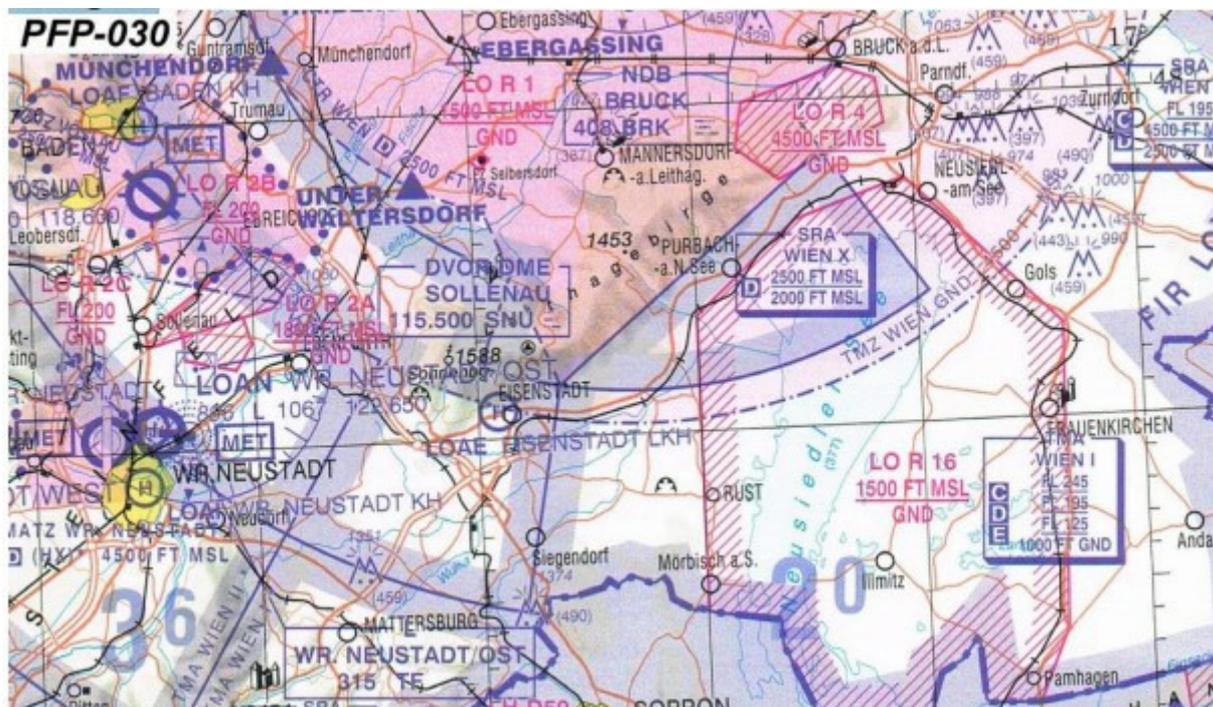
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11. The upper limit of LO R 4 equals... See annex (PPF-030)



- a) 1.500 ft AGL
- b) 2.500 ft AGL
- c) 4.500 ft MSL
- d) 1.500 ft MSL

12. The total weight of an aeroplane is acting vertically through the...

- a) Stagnation point
- b) Centre of pressure
- c) Neutral point
- d) Centre of gravity

13. The movement of air flowing together is called...

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

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

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

15. The term 'agonic line' is defined as a line on Earth or an aeronautical chart, connecting all points with the...

- a) Heading of 0°
- b) Deviation of 0°
- c) Inclination of 0°
- d) Variation of 0°

16. 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

17. The distance between the centre of gravity and the datum is called...

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

18. What has to be considered when entering an RMZ?

- a) To obtain a clearance to enter this area
- b) To permanently monitor the radio and if possible to establish radio contact
- c) To obtain a clearance from the local aviation authority
- d) The transponder has to be switched on Mode C and squawk 7000

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19. The angle of descent is defined as...

- a) The ratio between the change in height and the horizontal distance travelled within the same time, expressed in percent [%]
- b) The angle between a horizontal plane and the actual flight path, expressed in degrees [°]
- c) The angle between a horizontal plane and the actual flight path, expressed in percent [%]
- d) The ratio between the change in height and the horizontal distance travelled within the same time, expressed in degrees [°]

20. When airtowing using side-located latch, the sailplane tends to...

- a) Show particularly stable flight characteristics
- b) Quickly turn around longitudinal axis
- c) Show enhanced pitch up moment
- d) Show enhanced turn to latch-mounted side

21. Regularity messages are messages...

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

22. Through which factor listed below does the load factor increase during cruise flight?

- a) Lower air density
- b) A forward centre of gravity
- c) Higher aeroplane weight
- d) An upward gust

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

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

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

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

25. The shown NOTAM is valid until... A) 1024/25 A) LOWW B) 2505211200 C) 2505211400 E) STOCKERAU VOR STO 113.00 UNSERVICEABLE.

- a) 13/10/2025 00:00 UTC
- b) 21/05/2026 13:00 UTC
- c) 21/05/2025 14:00 UTC
- d) 13/05/2025 12:00 UTC

26. What pattern can be found at the stagnation point?

- 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

27. Which constructional elements give the wing its profile shape?

- a) Ribs
- b) Planking
- c) Tip
- d) Spar

28. The term "ceiling" is defined as the...

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

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

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

30. What is the gas composition of "air"?

- a) Oxygen 78 % Water vapour 21 % Nitrogen 1 %
- b) Oxygen 21 % Nitrogen 78 % Noble gases / carbon dioxide 1 %
- c) Oxygen 21 % Water vapour 78 % Noble gases / carbon dioxide 1 %
- d) Nitrogen 21 % Oxygen 78 % Noble gases / carbon dioxide 1 %

31. 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

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32. What is the true course (TC) from Uelzen (EDVU) (52°59'N, 10°28'E) to Neustadt (EDAN) (53°22'N, 011°37'E)?



- a) 241°
- b) 055°
- c) 235°
- d) 061°

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

- A 
- B 
- C 
- D 

PFP-062

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

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

- 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

35. The altimeter can be checked on the ground by setting...

- a) QFF and comparing the indication with the airfield elevation.
- b) QFE and comparing the indication with the airfield elevation.
- c) QNH and comparing the indication with the airfield elevation.
- d) QNE and checking that the indication shows zero on the ground.



36. What must be considered for cross-border flights?

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

37. An inversion layer close to the ground can be caused by...

- a) Thickening of clouds in medium layers.
- b) Large-scale lifting of air
- c) Intensifying and gusting winds.
- d) Ground cooling during the night.

38. 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

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

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

40. How does a laminar boundary layer differ from a turbulent boundary layer?

- 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

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41. Vienna (LOWW) is located at 016° 34'E, Salzburg (LOWS) at 013° 00'E. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between Wien and Salzburg?

- a) In Vienna the sunrise is 4 minutes later and sunset is 4 minutes earlier than in Salzburg
- b) In Vienna the sunrise and sunset are about 14 minutes earlier than in Salzburg
- c) In Vienna the sunrise and sunset are about 4 minutes later than in Salzburg
- d) In Vienna the sunrise is 14 minutes earlier and sunset is 14 minutes later than in Salzburg

42. What has to be considered for the speed during approach and landing?

- a) Wind speed and weight
- b) Altitude and weight
- c) Wind speed and Altitude
- d) Weight and wind speed

43. With Central European Summer Time (CEST) given as UTC+2, what UTC time corresponds to 1600 CEST?

- a) 1600 UTC
- b) 1700 UTC
- c) 1500 UTC
- d) 1400 UTC

44. How are the flight controls on a small single-engine piston aircraft normally controlled and actuated?

- a) Manually through rods and control cables
- b) Hydraulically through hydraulic pumps and actuators
- c) Electrically through fly-by-wire
- d) Power-assisted through hydraulic pumps or electric motors

45. How does inflowing cold air affect the shape and vertical distance between pressure layers?

- a) Increasing vertical distance, raise in height (high pressure)
- b) Decreasing vertical distance, raise in height (high pressure)
- c) Decrease in vertical distance, lowering in height (low pressure)
- d) Increase in vertical distance, lowering in height (low pressure)

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46. The airspeed indicator is unserviceable. The aeroplane may only be operated...

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

47. What is the meaning of the abbreviation "ARC"?

- a) Airworthiness Recurring Control
- b) Airspace Rulemaking Committee
- c) Airworthiness Review Certificate
- d) Airspace Restriction Criteria

48. Which abbreviation is used for the term "visual flight rules"?

- a) VFS
- b) VRU
- c) VFR
- d) VMC

49. 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

50. What is the meaning of "DETRESFA"?

- a) Distress phase
- b) Alerting phase
- c) Uncertainty phase
- d) Rescue phase

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51. 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...

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

52. 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 rhumb line distance between A and B is always...

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

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

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

54. The occurrence of a vertigo is most likely when moving the head...

- a) During a turn
- b) During a straight horizontal flight
- c) During a climb
- d) During a descent

55. The sandwich structure consists of two...

- a) Thick layers and a light core material
- b) Thick layers and a heavy core material
- c) Thin layers and a light core material
- d) Thin layers and a heavy core material

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56. While planning a 500 km triangle flight, there is a squall line 100 km west of the departure airfield, extending from north to south, moving east. Concerning the weather situation, what decision would be recommendable?

- a) To change plans and start the triangle heading east
- b) To postpone the flight to another day
- c) To plan the flight below cloud base of the thunderstorms
- d) During flight, to look for spacing between thunderstorms

57. How often shall a blind transmission be made?

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

58. What is the meaning of the abbreviation "VMC"?

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

59. 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

60. What has to be considered when operating a sailplane equipped with camber flaps?

- a) During approach and landing, camber must not be changed from negative to positive
- b) During approach and landing, camber must not be changed from positive to negative
- c) During winch launch, camber must be set to full negative
- d) During winch launch, camber must be set to full positive

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61. Which optical illusion might be caused by a runway with an upslope during the approach?

- a) The pilot has the feeling that the approach is too low and therefore approaches the runway above the regular glide slope
- b) The pilot has the feeling that the approach is too slow and speeds up above the normal approach speed
- c) The pilot has the feeling that the approach is too fast and reduces the speed below the normal approach speed
- d) The pilot has the feeling that the approach is too high and therefore descends below the regular glide slope

62. 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.

63. How is an air mass described when moving to Central Europe via the Russian continent during winter?

- a) Maritime tropical air
- b) Continental polar air
- c) Maritime polar air
- d) Continental tropical air

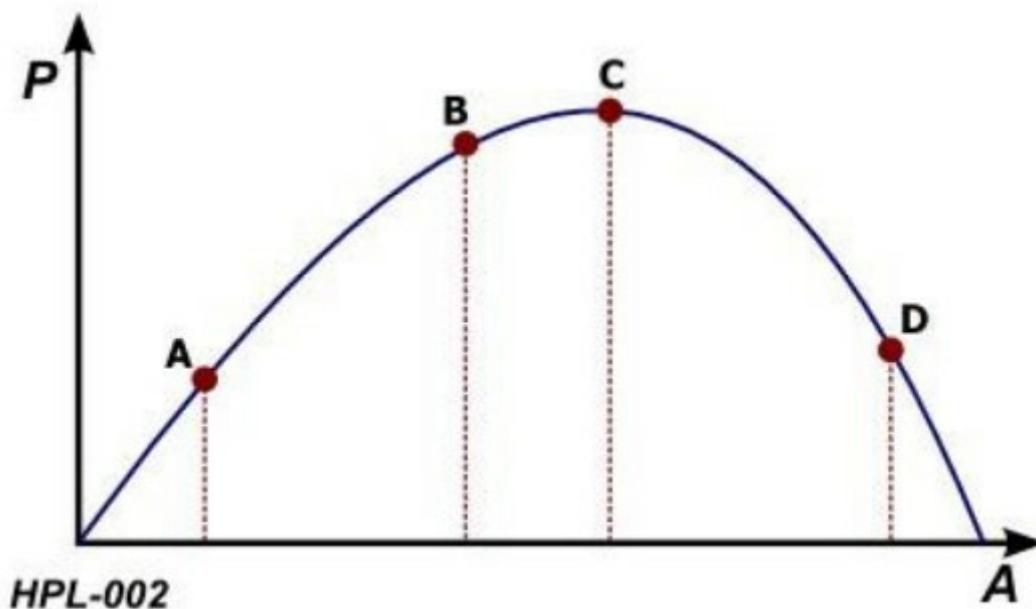
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64. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance A = Arousal / Stress



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

65. During flight close to aerodrome in about 250 m AGL you encounter strong descent and go for a safety landing. What speed should be flown when heading towards the airfield?

- a) Best glide speed plus additional for downdrafts and wind
- b) Best glide speed
- c) Minimum rate of descent speed
- d) Maximum manoeuvring speed V_A

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

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

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67. In straight and level flight with constant performance of the engine, the angle of attack at the wing is...

- a) Smaller than in a descent
- b) Greater than in a climb
- c) Greater than at take-off
- d) Smaller than in a climb

68. 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

69. The centre of pressure is the theoretical point of origin of...

- a) Only the resulting total drag
- b) Gravity forces of the profile
- c) All aerodynamic forces of the profile
- d) Gravity and aerodynamic forces

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

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

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Response Scheme

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

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