

# Exam simulation

SPL - Sailplane Pilot License - Communication



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STUDENT NAME:

DATE AND TIME:

## 01. What structural item provides directional stability to an aeroplane?

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- a) Differential aileron deflection
- b) Wing dihedral
- c) Large elevator
- d) Large vertical tail

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

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

## 03. The aerodynamic rudder balance...

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

## 04. What is the result of extending flaps with increasing aerofoil camber?

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- a) Maximum permissible speed increases
- b) Minimum speed increases
- c) Minimum speed decreases
- d) C.G. position moves forward

## 05. The centre 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

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

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A4604/11 NOTAMN

- Q)  
EDWW/QROLP/IV/NBO/W/000/095/5155N01037E004
- A) EDWW  
B) 1111180800 C) 1111181200  
E) OVERFLYING PROHIBITED FOR ALL TRAFFIC RADIUS  
3.35NM CENTERED AROUND 515436N 0103725E DUE  
TO DEMOLITION OF EXPLOSIVES AT ECKERTHAL,  
(25NM S BRAUNSCHWEIG NDB BRU).  
F) GND  
G) 9500 FT AMSL

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

**07. 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

**08. What difference in altitude is shown by an altimeter, if the reference pressure scale setting is changed from 1000 hPa to 1010 hPa?**

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- a) Zero  
b) 80 m less than before  
c) 80 m more than before  
d) Values depending on QNH

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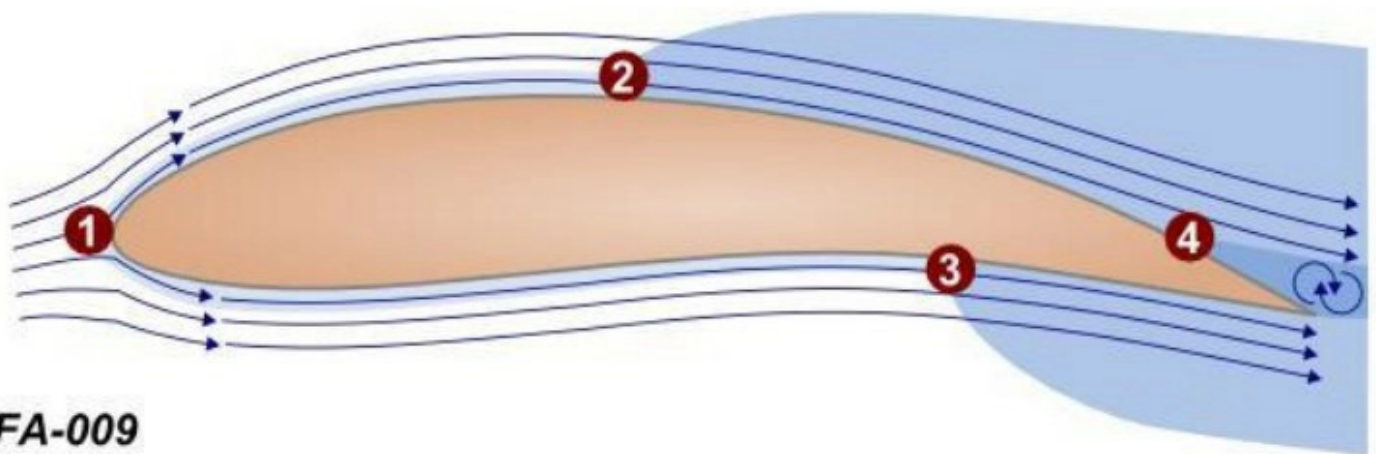
## 09. Air traffic control service is conducted by which services?

- a) ALR (alerting service) SAR (search and rescue service) TWR (aerodrome control service)
- b) FIS (flight information service) AIS (aeronautical information service) AFS (aeronautical fixed telecommunication service)
- c) APP (approach control service) ACC (area control service) FIS (flight information service)
- d) TWR (aerodrome control service) APP (approach control service) ACC (area control service)

## 10. What is a cause for the dip error on the direct-reading compass?

- a) Acceleration of the aeroplane
- b) Temperature variations
- c) Deviation in the cockpit
- d) Inclination of earth's magnetic field lines

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



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

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**12. Which phrase is to be used when a pilot wants the tower to know that he is ready for take-off?**

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- a) Ready for departure
- b) Request take-off
- c) Ready for start-up
- d) Ready

**13. What has to be considered with regard to the centre of gravity position?**

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

**14. What is the meaning of the abbreviation "ARC"?**

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

**15. On what frequency shall a blind transmission be made?**

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- a) On the appropriate FIS frequency
- b) On a tower frequency
- c) On a radar frequency of the lower airspace
- d) On the current frequency

**16. What is the primary purpose of an aircraft accident investigation?**

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- a) To identify the reasons and work out safety recommendations
- b) To clarify questions of liability within the meaning of compensation for passengers
- c) To work for the public prosecutor and help to follow-up flight accidents
- d) To determine the guilty party and draw legal consequences



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**17. What is the percentage of oxygen in the atmosphere at 6000 ft?**

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- a) 78 %
- b) 12 %
- c) 21 %
- d) 18.9 %

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**18. What is meant by "isothermal layer"?**

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- a) An atmospheric layer where temperature decreases with increasing height
- b) An atmospheric layer with constant temperature with increasing height
- c) A boundary area between two other layers within the atmosphere
- d) An atmospheric layer where temperature increases with increasing height

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**19. What is referred to as mountain wind?**

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- 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

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**20. 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

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**21. What could be a reason for changing the runway indicators at aerodromes (e.g. from runway 06 to runway 07)?**

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- a) The magnetic variation of the runway location has changed
- b) The magnetic deviation of the runway location has changed
- c) The true direction of the runway alignment has changed
- d) The direction of the approach path has changed



## 22. Which runway designators are correct for 2 parallel runways?

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- a) "26" and "26R"
- b) "06L" and "06R"
- c) "18" and "18-2"
- d) "24" and "25"

## 23. 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

## 24. Which abbreviation is used for the term "abeam"?

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

## 25. Which processes result in decreasing air density?

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- a) Decreasing temperature, increasing pressure
- b) Increasing temperature, increasing pressure
- c) Increasing temperature, decreasing pressure
- d) Decreasing temperature, decreasing pressure

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**26. Using annex PFP-061, which ICAO chart symbol indicates a group of unlighted obstacles?**

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PFP-061

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

**27. What has to be considered when operating a sailplane with water ballast?**

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- a) Best glide angle decreases
- b) Significant CG shifts
- c) Best glide speed decreases
- d) It should stay below freezing level

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

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

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## 29. The angle between compass north and magnetic north is called...

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- a) WCA
- b) Inclination
- c) Deviation
- d) Variation

## 30. During thermal soaring, another sailplane is following close by. What should be done to avoid a collision?

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- a) You reduce speed to let the other sailplane fly by
- b) You reduce bank to achieve a larger turn radius
- c) You increase bank to be better seen from the other sailplane
- d) You increase speed to achieve a position opposite in the circle

## 31. Which factor can lead to human error?

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- a) Proper use of checklists
- b) The bias to see what we expect to see
- c) Double check of relevant actions
- d) To be doubtful if something looks unclear or ambiguous

## 32. The ongoing process to monitor the current flight situation is called...

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- a) Situational thinking
- b) Situational awareness.
- c) Anticipatory check procedure
- d) Constant flight check

## 33. What is the call sign of the flight information service?

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- a) Flight information
- b) Info
- c) Advice
- d) Information

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**34. During an approach the aeroplane experiences a windshear with a decreasing headwind. If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change?**

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- a) Path is higher, IAS increases
- b) Path is lower, IAS decreases
- c) Path is lower, IAS increases
- d) Path is higher, IAS decreases

**35. Given: True course from A to B: 250°. Ground distance: 210 NM. TAS: 130 kt. Headwind component: 15 kt. Estimated time of departure (ETD): 0915 UTC. The estimated time of arrival (ETA) is...**

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- a) 1115 UTC
- b) 1005 UTC
- c) 1105 UTC
- d) 1052 UTC

**36. Which transponder code indicates a loss of radio communication?**

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- a) 2000
- b) 7600
- c) 7000
- d) 7700

**37. What is the best combination of traits with respect to the individual attitude and behaviour for a pilot?**

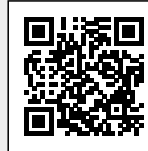
---

- a) Introverted - stable
- b) Introverted - unstable
- c) Extroverted - stable
- d) Extroverted - unstable

**38. A pilot can contact FIS (flight information service)...**

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



## 39. An aerodrome beacon (ABN) is a...

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- a) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air
- b) Rotating beacon installed at the beginning of the final approach to indicate its location to aircraft pilots from the air
- c) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air
- d) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground

## 40. What impression may be caused when approaching a runway with an upslope?

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- a) An undershoot
- b) A landing beside the centreline
- c) An overshoot
- d) A hard landing

## 41. Which transponder code has to be set unrequested during an emergency?

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

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

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- 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

## 43. What is the distance between the two parallels of longitude 150°E and 151°E along the equator?

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



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

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- 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

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

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

**46. With regard to the forces acting, how can stationary gliding be described?**

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- a) The sum of air forces acts along the direction of air flow
- b) The sum of the air forces acts along with the lift force
- c) The lift force compensates the drag force
- d) The sum of air forces compensates the gravity force

**47. In a co-ordinated turn, how is the relation between the load factor (n) and the stall speed (Vs)?**

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- a) N is smaller than 1, Vs is greater than in straight and level flight
- b) N is greater than 1, Vs is smaller than in straight and level flight
- c) N is greater than 1, Vs is greater than in straight and level flight
- d) N is smaller than 1, Vs is smaller than in straight and level flight

**48. Clouds are basically distinguished by what types?**

---

- a) Thunderstorm and shower clouds
- b) Cumulus and stratiform clouds
- c) Stratiform and ice clouds
- d) Layered and lifted clouds



**49. Under which conditions "back side weather" ("Rückseitenwetter") can be expected?**

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- a) After passing of a cold front
- b) Before passing of an occlusion
- c) During Foehn at the lee side
- d) After passing of a warm front

**50. During a right turn, the yaw string is drawn to the left from centre position. By what rudder input can the string be centred 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

**51. An energy-compensated vertical speed indicator (VSI) shows during stationary glide the vertical speed...**

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- a) Of the glider through surrounding air
- b) Of the airmass flown through
- c) Of the glider plus movement of the air
- d) Of the glider minus movement of the air

**52. 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

**53. 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 aeroplane mass
- d) Sudden loss of visibility

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## 54. The term "inclination" is defined as...

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- 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 aeroplane's longitudinal axis and true north

## 55. What is the meaning of "DETRESFA"?

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

## 56. When is it necessary to adjust the pressure in the reference scale of an altimeter?

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- a) After maintenance has been finished
- b) Every day before the first flight
- c) Once a month before flight operation
- d) Before every flight and during cross country flights

## 57. For what approximate time period can the short-time memory store information?

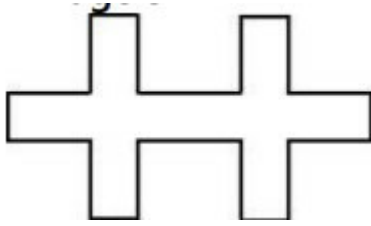
---

- a) 3 to 7 seconds
- b) 10 to 20 seconds
- c) 35 to 50 seconds
- d) 30 to 40 seconds



**58. What is the meaning of this sign at an aerodrome? See figure (ALW-011)**

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- a) After take-off and before landing all turns have to be made to the right
- b) Caution, manoeuvring area is poor
- c) Glider flying is in progress
- d) Landing prohibited for a longer period

**59. Bernoulli's equation for frictionless, incompressible gases states that...**

---

- a) Total pressure = dynamic pressure - static pressure
- b) Total pressure = dynamic pressure + static pressure
- c) Static pressure = total pressure + dynamic pressure
- d) Dynamic pressure = total pressure + static pressure

**60. What phrase is used by a pilot if a transmission is to be answered with "no"?**

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- a) Negative
- b) No
- c) Not
- d) Finish

**61. 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



---

**62. How are rhumb lines and great circles depicted on a direct Mercator chart?**

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- a) Rhumb lines: straight lines Great circles: curved lines
- b) Rhumb lines: straight lines Great circles: straight lines
- c) Rhumb lines: curved lines Great circles: straight lines
- d) Rhumb lines: curved lines Great circles: curved lines

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**63. The static pressure of gases work...**

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- a) In all directions
- b) Only in flow direction
- c) Only in the direction of the total pressure
- d) Only vertical to the flow direction

---

**64. 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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**65. Which instrument can be affected by the hysteresis error?**

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

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**66. A vertical speed indicator measures the difference between...**

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- a) Total pressure and static pressure
- b) Dynamic pressure and total pressure
- c) Instantaneous static pressure and previous static pressure
- d) Instantaneous total pressure and previous total pressure

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**67. 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?**

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- 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

**68. 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

**69. What is the correct term for the system which, among others, controls breathing, digestion, and heart frequency?**

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- a) Critical nervous system
- b) Autonomic nervous system
- c) Automatical nervous system
- d) Compliant nervous system

**70. Given: WCA: -012°; TH: 125°; MC: 139°; DEV: 002°E What are: TC, MH and CH?**

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- a) TC: 113°. MH: 127°. CH: 129°
- b) TC: 137°. MH: 127°. CH: 125°
- c) TC: 137°. MH: 139°. CH: 125°
- d) TC: 113°. MH: 139°. CH: 129°

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## Response Scheme

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

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