

# Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

## 01. Reasons for dents in the helicopter structure are...

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- a) Material defects or old colour.
- b) Intense erosion or high wear.
- c) Hard landing or excessive stress.
- d) Excessive engine rpm and cylinder defects.

## 02. Which of the items below may have an influence on the noise perceived by a person on the ground? 1) Engine power setting 2) Propeller revolutions per minute 3) Position of the landing gear 4) Flap position 5) Flight track 6) Height above ground 7) Flight rules

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- a) 1, 2, 3, 4, 5, 6
- b) 1, 5, 6
- c) 1, 5, 6, 7
- d) 3, 4, 5, 6, 7

## 03. For the purpose of a flight preparation, the pilot calculates a total take-off mass of 750 kg and a total moment of 625 mmkg. Which cross marks the center of gravity (CG)? See annex (PFP-003) (1,00 P.) Siehe Anlage 3

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

## 04. When using direct current, electrically driven flight instruments are marked with...

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- a) "EL".
- b) "DC"
- c) "AL".
- d) "CO".

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## 05. Which information from a ground station does not require readback?

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- a) Runway in use
- b) Wind
- c) SSR-Code
- d) Altitude

## 06. When do you expect wind shear?

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

## 07. Which of the following factors could cause an erroneous airspeed indication?

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- a) A circuit breaker was pulled
- b) The earth wire is still attached
- c) The boost pressure line is defective
- d) The aircraft is covered with adhesive foils

## 08. The EOBT (estimated off-block time) is specified in the ATS flight plan as...

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- a) Coordinated Universal Time (UTC)
- b) Standard Time (ST)
- c) Local Mean Time (LMT).
- d) Central European Time (CET).

## 09. What minimum coverage with ice or snow must be given to call a runway "contaminated"?

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- a) 50 %
- b) 25 %
- c) 10 %
- d) 75 %

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**10. Which area could be crossed with certain restrictions?**

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

**11. What does a cloud coverage of "SCT" mean in a METAR weather report?**

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- a) 1 to 2 eighths
- b) 8 eighths
- c) 3 to 4 eighths
- d) 5 to 7 eighths

**12. The ideal level of arousal is at which point in the diagram? See figure (HPL- 002) P = Performance A = Arousal / Stress Siehe Anlage 1**

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

**13. The stall warning will be activated just before reaching which speed?**

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- a) VNE
- b) VS
- c) VX
- d) VR

**14. Which cockpit instruments are connected to the static port?**

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- a) Altimeter, vertical speed indicator, airspeed indicator
- b) Airspeed indicator, direct-reading compass, slip indicator
- c) Altimeter, slip indicator, navigational computer
- d) Airspeed indicator, altimeter, direct-reading compass

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## 15. When transmitter and receiver are moving away from each other...

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- a) The perceived frequency increases
- b) The perceived frequency decreases.
- c) The frequency varies, but the wavelength remains constant
- d) The perceived frequency equals the transmitted frequency.

## 16. In what case is visibility transmitted in meters?

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- a) Up to 5 km
- b) Greater than 10 km
- c) Greater than 5 km
- d) Up to 10 km

## 17. How does the pilot prepare for a VFR flight over a large distance of water, when it is unlikely that land can be reached in case of an engine failure?

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- a) File a flight plan including the exact way-points
- b) Be prepared to fly with transponder only
- c) Carry life vests or a life raft for all occupants.
- d) Maintain continuous radio contact with ATC.

## 18. During an approach the aeroplane experiences a windshear with an increasing 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 decreases
- b) Path is lower, IAS increases
- c) Path is higher, IAS increases
- d) Path is lower, IAS decreases

## 19. Who provides search and rescue service?

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- a) Only military organisations
- b) International approved organisations
- c) Only civil organisations
- d) Both military and civil organisations

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**20. (For this questions use attachment or CAP697 SEP1 Fig. 2.2 Table 2.2.3) For planning a VFR flight, the following data are given: Flight time with planning "overhead-overhead" = 2h 42min Pressure Altitude = 7.500 ft Temperature = ISA Power setting = 2300 RPM Taxi Fuel = 2 USG Additional time for climb = 8 min, Additional time for approach and landing = 10 min The reserve fuel has to be 30% of trip fuel. Determine the minimum block fuel: (2,00 P.) Siehe Anlage 21**

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- a) 51.8 USG
- b) 37.7 USG
- c) 46.4 USG
- d) 48.4 USG

**21. A frequency of 119.500 MHz is correctly transmitted as...**

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- a) One one niner thousand decimal five zero.
- b) One one niner decimal five
- c) One one niner decimal five zero.
- d) One one niner decimal five zero zero.

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

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

**23. A technical fault requires an emergency off-field landing. Which steps, with respect to the pilot's operating handbook, are necessary?**

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- a) Inform air traffic control and request technical support, check the pilot's operating handbook for a reference on the matter and execute an emergency landing
- b) Reduce speed and configure the aircraft for landing in an attempt to gain time, declare an emergency, complete the applicable emergency procedure and execute an emergency landing.
- c) Locate a suitable landing area, plan the approach, complete the applicable emergency procedure, declare an emergency, start and concentrate on the approach in due time.
- d) Declare an emergency, complete the applicable emergency procedure, cover as much distance towards the airport as possible to be closer to the rescue forces.

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## 24. Which statement about induced drag during the horizontal cruise flight is correct?

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- a) Induced drag has a minimum at a certain speed and increases at higher as well as lower speeds
- b) Induced drag has a maximum at a certain speed and decreases at higher as well as lower speeds
- c) Induced drag increases with increasing airspeed
- d) Induced drag decreases with increasing airspeed

## 25. The transponder code in case of hi-jacking is...

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

## 26. (For this questions, use attachment or CAP697 SEP1 Fig. 2.2 Table 2.2.3) Planning a flight from EDWH (Oldenburg Hatten) to EDWF (Leer Papenburg), the following conditions apply: Cruise level = FL 65 Temperature = ISA+20 Cruise weight = 3400 lbs Power setting = 23.0 in. HG @ 2300 RPM What Indicated Airspeed (IAS) and Fuel Flow (FF) can be expected? (2,00 P.) Siehe Anlage 21

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- a) IAS = 142 kt FF = 11.5 GPH
- b) IAS = 145 kt FF = 11.9 GPH
- c) IAS = 158kt FF = 11.5 GPH
- d) IAS = 150 kt FF = 12.3 GPH

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

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

## 28. An aircraft is flying with an indicated airspeed (IAS) of 150 kt at 8000 ft MSL. According to the rule of thumb, the true airspeed (TAS) equals...

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- a) 174 kt.
- b) 150 kt
- c) 142 kt.
- d) 208 kt

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

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

## 30. A VHF direction finder (VDF) can determine...

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- a) Slant ranges
- b) Magnetic bearings.
- c) Approach speeds
- d) True courses

## 31. Given the following information, what range can be achieved? Outside air temperature: 22° C Pressure altitude: 2000 ft Power: 55 % See annex (PFP-013) (1,00 P.) Siehe Anlage 12

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- a) 550 NM
- b) 480 NM
- c) 450 NM
- d) 500 NM

## 32. The result of a rear C.G. position is...

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- a) An increased fuel consumption.
- b) A decrease of range.
- c) A decrease of stability.
- d) An increased stall speed.

## 33. What engines are commonly used with Touring Motor Gliders (TMG)?

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- a) 4 Cylinder; 4 stroke
- b) 4 Cylinder 2 stroke
- c) 2 Cylinder Diesel
- d) 2 plate Wankel

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## 34. Which of the following options does NOT stimulate motion sickness (disorientation)?

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- a) Head movements during turns
- b) Flying under the influence of alcohol
- c) Non-accelerated straight and level flight
- d) Turbulence in level flight

## 35. The drag coefficient...

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- a) Increases with increasing airspeed.
- b) Is proportional to the lift coefficient.
- c) Cannot be lower than a non-negative, minimal value.
- d) May range from zero to an infinite positive value

## 36. What is the meaning of a steady red light signal at a controlled aerodrome directed to an aircraft on ground?

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- a) Land at this airport and proceed to apron
- b) Clear the taxiway / runway
- c) Return to starting point
- d) Stop

## 37. The basic empty mass of an aircraft includes...

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- a) The total mass of the aeroplane ready for a specific type of operation excluding unusable fuel and traffic load. The mass includes items such as crew and crew baggage.
- b) The total mass of an aeroplane ready for a specific type of operation including the required fuel and crew, but excluding traffic load.
- c) The mass of the aeroplane plus standard items such as unusable fuel and other unusable liquids, lubricating oil in engine and auxiliary units, fire extinguishers, pyrotechnics, emergency oxygen equipment, supplementary electronic equipment.
- d) The total mass of the aeroplane ready for a specific type of operation including crew, navigation instruments and engine cowling.

## 38. Assume calm wind and an aircraft descending from 9000 ft to 1500 ft. The rate of descent (ROD) equals 1200 ft/min. The elapsed time will be...

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- a) 6 min.
- b) 15 min
- c) 12 min
- d) 8 min.



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**39. The Caution Area is marked on an airspeed indicator by what color?**

---

- a) Green
- b) Red
- c) Yellow
- d) White

**40. Given: True course: 255°. TAS: 100 kt. Wind: 200°/10 kt. The true heading equals...**

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- a) 245°
- b) 275°.
- c) 265°
- d) 250°.

**41. Wings level after a longer period of turning can lead to the impression of...**

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- a) Starting a descent.
- b) Starting a climb.
- c) Steady turning in the same direction as before
- d) Turning into the opposite direction

**42. Cylinder head temperature indication relates to...**

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- a) All Cylinders.
- b) A random cylinder
- c) The critical cylinder
- d) The average of all cylinders.

**43. What are the minimum requirements among others to acquire a rating for VFR night flights?**

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- a) At least 10 additional flight hours at night, three of them with a flight instructor with at least 1 hour cross-country flight plus 5 solo take-offs and full-stop landings
- b) At least 5 additional flight hours at night, four of them with a flight instructor with at least 1 hour cross-country flight plus 5 solo take-offs and full-stop landings
- c) At least 5 additional flight hours at night, three of them with a flight instructor with at least 1 hour cross-country flight plus 5 solo take-offs and full-stop landings
- d) At least 5 additional flight hours at night, three of them with a flight instructor with at least 1 hour cross-country flight plus 10 solo take-offs and full-stop landings

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**44. Primary fuselage structures of wood or metal planes are usually made up by what components?**

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- a) Girders, ribs and stringers
- b) Frames and stringer
- c) Ribs, frames and covers
- d) Covers, stringers and forming parts

**45. The highest absorption of humidity in fuel can be observed in which situation?**

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- a) During parking on wet grass areas
- b) During parking on cold aprons
- c) Almost empty tanks
- d) Almost full tanks

**46. Which cylinder arrangement is commonly used on small aircrafts and motor gliders?**

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- a) Horizontally opposed engine
- b) Radial engine
- c) In-line engine
- d) V-type engine

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

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

**48. Which transponder code should be set during a radio failure without any request?**

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

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## 49. What weather conditions may be expected during conditionally unstable conditions?

- a) Layered clouds up to high levels, prolonged rain or snow
- b) Shallow cumulus clouds with base at medium levels
- c) Sky clear of clouds, sunshine, low winds
- d) Towering cumulus, isolated showers of rain or thunderstorms

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

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

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## 51. What is the reason for static dischargers on aircraft?

- a) To ensure grounding during refueling
- b) To discharge static charging during flight
- c) To eliminate electrical interferences during intensive radio traffic
- d) To improve the quality of radio transmission in high altitudes

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## 52. An emergency landing is a landing...

- a) Conducted without power from the engine.
- b) Conducted in an attempt to keep up safety regarding an aircraft and its occupants.
- c) Conducted with the flaps retracted.
- d) Conducted in response to circumstances forcing the aircraft to land

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## 53. Which answer contains every state of water found in the atmosphere?

- a) Liquid and solid
- b) Liquid, solid, and gaseous
- c) Gaseous and liquid
- d) Liquid

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**54. A single-engine piston and a turboprop aeroplane are approaching each other opposite at the same altitude. Which aeroplane has to change its track to avoid a collision?**

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- a) The turboprop aircraft has to give way to the single-engine piston aircraft
- b) Both aircraft have to alter their tracks to the left
- c) Both aircraft have to alter their tracks to the right
- d) The single-engine piston aircraft has to give way to the turboprop aircraft

**55. During final approach, the glider pilot realizes a very bumpy surface on a selected off field landing site. What technique may be recommended for landing?**

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- a) Touch down with minimum speed, compensate different ground levels with power lever
- b) Approach with increased speed, push elevator upon first ground contact
- c) Touch down with minimum speed, keep elevator pulled until full stop
- d) Approach with increased speed, avoid using wheel brakes

**56. What is the advantage of differential aileron movement?**

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- a) The ratio of the drag coefficient to lift coefficient is increased
- b) The adverse yaw is high
- c) The drag of the downwards deflected aileron is lowered and the adverse yaw is smaller
- d) The total lift remains constant during aileron deflection

**57. Given the following conditions, the TAS equals... Outside air temperature: -2° C Pressure altitude: 8000 ft Power: 75 % See annex (PFP-014) (1,00 P.) Siehe Anlage 13**

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- a) 104 kt
- b) 100 kt.
- c) 95 kt.
- d) 110 kt

**58. What ground features should preferably be used for orientation during visual flight?**

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- a) Border lines
- b) Farm tracks and creeks
- c) Power lines
- d) Rivers, railroads, highway

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## 59. Which area is suitable for an off-field landing?

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- a) Harvested cornfield
- b) Glade with long dry grass
- c) Plowed field
- d) Sports area in a village

## 60. The formation of medium to large precipitation particles requires...

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- a) A high cloud base.
- b) Strong wind.
- c) An inversion layer.
- d) Strong updrafts.

## 61. How does a laminar boundary layer differ from a turbulent boundary layer?

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- a) The laminar boundary layer produces lift, the turbulent boundary layer produces drag
- b) The turbulent boundary layer is thicker and provides less skin-friction drag
- c) The laminar boundary layer is thinner and provides more skin-friction drag
- d) The turbulent boundary layer can follow the airfoil camber at higher angles of attack

## 62. What needs to be observed in conjunction with overheated brakes?

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- a) The affected brakes need to be cooled down with halon
- b) The affected tyres may burst in axial direction
- c) The affected tyres may burst in radial direction or direction of rotation
- d) The wheel fairing shall be taken off to increase the cooldown

## 63. What is the correct designation of the frequency band from 118.000 to 136.975 MHz used for voice communication?

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- a) LF
- b) VHF
- c) MF
- d) HF

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**64. Which altitude marks the lower limit where the the body is unable to completely compensate the effects of the low atmospheric pressure?**

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- a) 12000 feet
- b) 22000 feet
- c) 5000 feet
- d) 7000 feet

**65. Which navigation facility may be used for broadcasting the ATIS?**

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- a) GPS
- b) DME
- c) NDB
- d) VOR

**66. Which curve represents the induced drag? See Appendix (PFA-011)**

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

**67. What pattern can be found at the stagnation point?**

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- a) The boundary layer starts separating on the upper surface of the profile
- b) The laminar boundary layer changes into a turbulent boundary layer
- c) All aerodynamic forces can be considered as attacking at this single point
- d) Streamlines are divided into airflow above and below the profile

**68. QNE is the...**

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- a) Barometric pressure at a reference datum, typically the runway threshold of an airfield
- b) Magnetic bearing to a station.
- c) Barometric pressure adjusted to sea level, using the international standard atmosphere (ISA).
- d) Altitude above the reference pressure level 1013.25 hPa.

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## 69. Which dangerous attitudes are often combined?

---

- a) Macho and invulnerability
- b) Impulsivity and carefulness
- c) Invulnerability and self-abandonment
- d) Self-abandonment and macho

## 70. Which statement describes a situation of static stability?

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- a) An aircraft distorted by external impact will tend to an even more deflected position
- b) An aircraft distorted by external impact will return to the original position
- c) An aircraft distorted by external impact can return to its original position by rudder input
- d) An aircraft distorted by external impact will maintain the deflected position

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## Schema Risposte

Confronta le risposte fornite con il seguente schema e segna il tuo punteggio!

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