

# Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

## 01. What is the meaning of "risky shift"?

- a) Crossing of rudder and ailerons on short final
- b) The tendency to accept higher risks in groups
- c) Spontaneous change of landing direction when the runway has an upslope
- d) Seat adjustment in flight

## 02. What is the percentage of oxygen in the atmosphere at 6000 ft?

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

## 03. Heavy downdrafts and strong wind shear close to the ground can be expected...

- a) During cold, clear nights with the formation of radiation fog
- b) Near the rainfall areas of heavy showers or thunderstorms
- c) During approach to an airfield at the coast with a strong sea breeze
- d) During warm summer days with high, flatted Cu clouds.

## 04. "Foehn" conditions usually develop with...

- a) Instability, widespread air blown against a mountain ridge.
- b) Stability, widespread air blown against a mountain ridge.
- c) Instability, high pressure area with calm wind.
- d) Stability, high pressure area with calm wind.

## 05. What is the correct way of acknowledging the instruction "DZF after lift-off climb straight ahead until 2500 feet before turning right heading 220 degrees, wind 090 degrees, 5 knots, runway 12, cleared for take-off"?

- a) DZF after lift-off climb straight ahead 2500 feet, wilco, heading 220 degrees, 090 degrees, 5 knots, cleared for take-off
- b) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, runway 12, cleared for take-off
- c) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots
- d) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots, cleared for take-off

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## 06. Urgency messages are defined as...

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

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

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- a) Cleared for take-off
- b) Cleared to taxi
- c) Immediately taxi clear of runway in use
- d) Return to starting point

## 08. What is referred to as mountain wind?

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

## 09. 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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## 10. 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

## 11. Deflecting the rudder to the left causes...

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- a) Pitching of the aircraft to the right.
- b) Yawing of the aircraft to the right
- c) Yawing of the aircraft to the left.
- d) Pitching of the aircraft to the left

## 12. Which answer states a risk factor for diabetes?

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- a) Overweight
- b) Smoking
- c) Sleep deficiency
- d) Alcohol consumption

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

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

## 14. In what cases is visibility transmitted in kilometers?

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

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## 15. Which factor shortens landing distance?

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- a) High pressure altitude
- b) Strong head wind
- c) Heavy rain
- d) High density altitude

## 16. Wake turbulence is particularly strong...

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- a) At a high aeroplane weight.
- b) When flying with high thrust.
- c) When flying with low thrust.
- d) At a low aeroplane weight.

## 17. Which gas is most dangerous during an engine fire?

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- a) Carbon monoxide
- b) Nitrogen
- c) Oxygen
- d) Carbon dioxide

## 18. Being intercepted by a military aircraft at daytime, what is the meaning of the following signal: Alternating movement of the ailerons, normally left of the intercepted aircraft, followed by a smooth turn to the left?

---

- a) Prepare for a safety landing, you have entered a prohibited area
- b) You are entering a restricted area, leave the airspace immediately
- c) Follow me
- d) You are clear of any restricted or reserved airspaces, you can continue on your heading

## 19. How can the pilot of an engine-driven aircraft minimise the noise emission during descent and approach?

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- a) How can the pilot of an engine-driven aircraft minimise the noise emission during descent and approach?
- b) Descent and approach in landing configuration while maintaining a descent angle of 3°, direct approach whenever possible
- c) Low approach with minimum power setting, late configuration and steep approach, adherence to established arrival routes
- d) High approach with minimum power setting, late descent, late configuration, adherence to established arrival routes

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**20. 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 rumb line distance between A and B is always...**

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

**21. A take-off with flaps in take-off position causes...**

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- a) An increased rate of climb
- b) An increased acceleration
- c) A shortening of the take-off run.
- d) A decrease in drag.

**22. 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

**23. When preparing to carry out the weighing procedure on an aircraft, which of the following is required?**

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- a) Drain all engine tank oil
- b) Remove service equipment
- c) Drain all useable fuel
- d) Remove the batteries

**24. The sandwich structure consists of two...**

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

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**25. The symbol labeled (2) as shown in the picture is a / an... See figure (MET-005) (1,00 P.) Siehe Anlage 4**

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- a) Front aloft
- b) Cold front
- c) Warm front.
- d) Occlusion.

**26. How should the pilot react to an engaged stall warning?**

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- a) Pull the elevator, increase power
- b) Pull the elevator, decrease power
- c) Push the elevator, increase power
- d) Raise the nose to decrease airspeed

**27. Wake turbulences develop during take-off just as the aeroplane...**

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- a) Reaches an altitude of 15 ft.
- b) Lifts off with the main gear.
- c) Lifts off with the front gear.
- d) Accelerates

**28. 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.

**29. During a VFR flight the remaining usable fuel at a checkpoint is 80 USG. Reserve fuel is 20 USG, remaining flight time according to flight plan is 2h 20min. What is the highest acceptable fuel flow (FF) for the rest of the trip?**

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- a) FF = 8.6 USG/h
- b) FF = 42.9 USG/h
- c) FF = 25.7 USG/h
- d) FF = 34.3 USG/h

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## 30. The angle of descent is defined as...

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

## 31. Fading in LF/MF frequency range occurs mainly...

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- a) In the late afternoon.
- b) At midday.
- c) During the night.
- d) In the daytime.

## 32. What is the fuel flow and the true airspeed for cruise flight with 60 % power in flight level 85 at an OAT of -25° C? See annex (PFP-014) (1,00 P.) Siehe Anlage 13

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- a) Fuel flow: 17 l. TAS: 81 kt.
- b) Fuel flow: 17.5 l. TAS: 83 kt
- c) Fuel flow: 20 l. TAS: 89 kt.
- d) Fuel flow: 18.5 l. TAS: 85 kt.

## 33. Which Q-code is used for the magnetic bearing from the station?

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- a) QUJ
- b) QTE
- c) QDM
- d) QDR

## 34. In flight, a little smoke emerges from behind the instrument panel. An engine fire is suspected. Which action, with respect to the pilot's operating manual, should be taken?

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- a) Turn off the heat
- b) Shut down the engine
- c) Use the fire extinguisher
- d) Turn off the master switch

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## 35. Which parts of an aircraft mainly affect the generation of induced drag?

---

- a) The front part of the fuselage.
- b) The wing tips
- c) The lower part of the gear.
- d) The outer part of the ailerons

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

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

## 37. Rotation around the vertical axis is called...

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- a) Rolling
- b) Pitching
- c) Yawing
- d) Slipping

## 38. 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

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



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## 40. What does a cloud coverage of "FEW" mean in a METAR weather report?

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

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

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- a) Measuring the present static air pressure and comparing it to the static air pressure inside a reservoir
- b) Total air pressure is measured and compared to static pressure
- c) Measuring the vertical acceleration through the displacement of a gimbal-mounted mass
- d) Static air pressure is measured and compared against a vacuum

## 42. A flight level is a...

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- a) Pressure altitude.
- b) Density altitude
- c) Altitude above ground
- d) True altitude.

## 43. The end of the green arc (4) indicates which airspeed? See figure (PFP-008) (1,00 P.) Siehe Anlage 8

---

- a) VNO: Maximum speed for normal operations
- b) VNE: Never-exceed speed
- c) VFE: Maximum flap extended speed
- d) VS1: Stall speed with flaps up

## 44. What clouds and weather can typically be observed during the passage of a cold front?

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- a) In coastal areas during daytime wind from the coast and forming of cumulus clouds, dissipation of clouds during evening and night
- b) Strongly developed cumulus clouds (Cb) with showers of rain and thunderstorms, gusting wind followed by cumulus clouds with isolated showers of rain
- c) Cirrus, thickening altostratus and altocumulus clouds, lowering cloud base with rain, nimbostratus
- d) Wind becoming calm, dissipation of clouds and warming during summer; formation of extended high fog layers during winter

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

---

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

## 46. The DME reading is a...

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- a) Ground distance.
- b) Air range
- c) Radial distance.
- d) Slant range.

## 47. What is the usual direction of movement of a polar front low?

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- a) To the northwest during winter, to the southwest during summer
- b) To the northeast during winter, to the southeast during summer
- c) Parallel to the warm front line to the south
- d) Parallel to the the warm-sector isobars

## 48. Which pressure is sensed by the Pitot tube?

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- a) Cabin air pressure
- b) Total air pressure
- c) Dynamic air pressure
- d) Static air pressure

## 49. According to ICAO Anex 14, which is the colour marking of a runway?

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

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**50. Which is the maximum rate of climb for the aircraft at 6500 ft pressure altitude and an OAT of 0° C? See annex (PFP-011) (1,00 P.) Siehe Anlage 11**

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- a) 480 ft / min
- b) 400 ft / min
- c) 520 ft / min
- d) 800 ft / min

**51. Weather phenomena are most common to be found in which atmospheric layer?**

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- a) Stratosphere
- b) Tropopause
- c) Thermosphere
- d) Troposphere

**52. Times are transmitted as...**

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- a) UTC
- b) Standard time.
- c) Local time.
- d) Time zone time

**53. 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

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

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

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## 55. Which Q-code is used for the true bearing to the station?

---

- a) QDR
- b) QDM
- c) QTE
- d) QUJ

## 56. What structural item provides directional stability to an airplane?

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

## 57. The possession of a european PPL(A) entitles the holder to...

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- a) Act as pilot on a commercial flight when there are at most 4 people on board.
- b) Act as pilot in commercial and non-commercial flights with single engine aircraft.
- c) Act as PIC, and only for flights in aircraft with a MTOW of maximum 2000 kg a compensation may be obtained.
- d) Act as PIC on non-commercial flights without compensation as well as to receive compensation as a flight instructor.

## 58. Which weather phenomenon is typically associated with wind shear?

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- a) Fog
- b) Invernal warm front.
- c) Thunderstorms
- d) Stable high pressure areas.

## 59. What is the principle of a Fowler flap?

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- a) A profile-like flap is extended from the trailing edge of the wing
- b) A flap from the rear bottom side of the wing is folded down
- c) At high angles of attack a part of the leading edge lifts
- d) At high angles of attack a part of the leading edge lifts

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**60. Which phenomenon may be expected at point 3 of the microburst? See figure (OPR-001) (1,00 P.) Siehe Anlage 1**

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- a) Decrease in airspeed
- b) Constant rate of descent
- c) Increase in airspeed
- d) Decrease in climb rate

**61. Number 2 in the drawing corresponds to the... See figure (PFA-010) (1,00 P.) Siehe Anlage 1**

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- a) Chord line.
- b) Chord
- c) Angle of attack.
- d) Profile thickness.

**62. 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

**63. The red marking at the end of the yellow arc (5) indicates which airspeed? See figure (PFP-008) (1,00 P.) Siehe Anlage 8**

---

- a) VNO: Maximum speed for normal operations
- b) VFE: Maximum flap extended speed
- c) VS1: Stall speed with flaps up
- d) VNE: Never-exceed speed

**64. Which statement concerning the angle of attack is correct?**

---

- a) The angle of attack cannot be negative
- b) Increasing the angle of attack results in decreasing lift
- c) The angle of attack is constant throughout the flight
- d) A too large angle of attack may result in a loss of lift

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**65. 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**

---

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

**66. An attitude director indicator (ADI) combines the information provided by...**

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- a) The attitude indicator and the flight director.
- b) The directional gyro and the rate gyro.
- c) The attitude indicator and the relative bearing indicator.
- d) The attitude indicator and the radio magnetic indicator

**67. In comparison to the true airspeed in still air conditions, the TAS in a strong tailwind will be...**

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- a) The same for maximum range
- b) Significantly lower for maximum endurance
- c) Slightly lower for maximum range
- d) Slightly higher for maximum endurance

**68. How may windshear be recognised in flight?**

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- a) Sudden and apparently baseless change in altitude, airspeed, rate of climb or descent.
- b) Sudden and apparently baseless change in heading, turning rate, engine speed or oil temperature
- c) Sudden and apparently baseless change of oil pressure, oil temperature, engine speed and altitude
- d) Rather unexpected onset of drizzle associated with high stratus clouds following previously clear skies and calm conditions

**69. How should a power increase be executed on a constant-speed propeller, provided that no other procedure is described in the flight manual?**

---

- a) 1) Decrease manifold pressure 2) Increase RPM
- b) 1) Decrease RPM 2) Increase manifold pressure
- c) 1) Increase manifold pressure 2) Increase RPM
- d) 1) Increase RPM 2) Increase manifold pressure

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## 70. A risk factor for decompression sickness is...

---

- a) Smoking
- b) Sports
- c) Scuba diving prior to flight.
- d) 100 % oxygen after decompression.

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## Schema Risposte

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

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