

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

NOME ALLIEVO:

DATA & ORA:

**01. How do induced drag and parasite drag change with increasing airspeed during a horizontal and stable cruise flight?**

- a) Induced drag decreases and parasite drag increase
- b) Parasite drag decreases and induced drag increases
- c) Parasite drag decreases and induced drag decreases
- d) Induced drag increases and parasite drag increases

**02. Differential aileron deflection is used to...**

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

**03. (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**

- 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

**04. An altitude of 4500 ft is transmitted as...**

- a) Four thousand five hundred.
- b) Four five thousand.
- c) Four thousand five zero zero.
- d) Four five zero zero.

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

## 05. 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

## 06. 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?

---

- 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

## 07. What cloud type can typically be observed across widespread high pressure areas during summer?

---

- a) Overcast low stratus
- b) Scattered Cu clouds
- c) Overcast Ns clouds
- d) Squall lines and thunderstorms

## 08. It is possible that the surface wind speed at an airport is reduced due to friction. When a surface area with a minor tailwind condition is left during the initial climb, the pilot might expect...

---

- a) An increase in airspeed and rate of climb due to decreasing tailwind
- b) A decrease in airspeed and climb performance due to decreasing tailwind
- c) An increase in airspeed and rate of climb due to increasing tailwind.
- d) A decrease in airspeed and rate of climb due to increasing tailwind.

## 09. Fuel quantity in small aircraft is most commonly measured through a level sensor. The European Certification Specifications CS 23 require that...

---

- a) At least one fuel quantity indicator must be available to indicate the total amount of fuel aboard an aircraft. This Indicator must be calibrated adequately to indicate the correct amount of fuel during all phases of flight.
- b) If the fuel indicator fails, the pilot must land at the next available airport.
- c) If no fuel quantity indicator is available to the pilot in flight, the pilot must check the fuel quantity before commencing the flight and recalculate the remaining fuel on board in regular intervals during the flight.
- d) A fuel quantity indicator must be available for each tank and the indicator must be calibrated to read "zero" during level flight when the quantity of fuel remaining in the tank is equal to the unusable fuel supply.

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

**10. Given: QDM: 248° VAR: 10° W The QTE is...**

---

- a) 238°.
- b) 078°
- c) 058°.
- d) 258°.

**11. Pressure compensation on an wing occurs at the...**

---

- a) Wing roots
- b) Wing tips.
- c) Trailing edge
- d) Leading edge.

**12. Which phrase is used by a pilot when he wants to fly through controlled airspace?**

---

- a) Apply
- b) Want
- c) Would like
- d) Request

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

---

- 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

**14. In which way should a pilot confirm received light signals in flight?**

---

- a) Apply some changes of RPM
- b) Apply some changes of the rudder
- c) Rock the wings (in the daytime)
- d) Apply some fast pitch changes

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

## 15. Which of the following symptoms may indicate hypoxia?

---

- a) Joint pain in knees and feet
- b) Muscle cramps in the upper body area
- c) Blue discolouration of lips and fingernails
- d) Blue marks all over the body

## 16. Which transponder code indicates a radio failure?

---

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

## 17. In case of an emergency ditching, the life vests have to be inflated...

---

- a) Before disembarking the aircraft.
- b) During disembarking the aircraft
- c) After disembarking the aircraft at a safe distance of about 10 m.
- d) After disembarking the aircraft

## 18. What wind conditions can be expected in areas showing large distances between isobars?

---

- a) Formation of local wind systems with strong prevailing westerly winds
- b) Strong prevailing easterly winds with rapid backing
- c) Strong prevailing westerly winds with rapid veering
- d) Variable winds, formation of local wind systems

## 19. What is a latent error?

---

- a) An error which is made by the pilot actively and consciously
- b) An error which only has consequences after landing
- c) An error which remains undetected in the system for a long time
- d) An error which has an immediate effect on the controls

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

**20. Given: True course: 165°. TAS: 90 kt. Wind: 130°/20 kt. Distance: 153 NM. The true heading equals...**

---

- a) 126°.
- b) 158°.
- c) 152°
- d) 152°

**21. What is the meaning of the abbreviation "IFR"?**

---

- a) Instrument Flight Rules
- b) Instrument Meteorological Conditions
- c) Bad Weather Flight Rules
- d) Commercial Flight Rules

**22. What types of boundary layers can be found on an aerofoil?**

---

- a) Laminar layer at the leading wing areas, turbulent boundary layer at the trailing areas
- b) Turbulent boundary layer along the complete upper surface with separated airflow
- c) Turbulent layer at the leading wing areas, laminar boundary layer at the trailing areas
- d) Laminar boundary layer along the complete upper surface with non-separated airflow

**23. What does the term "Red-out" mean?**

---

- a) "Red vision" during negative g-loads
- b) Rash during decompression sickness
- c) Anaemia caused by an injury
- d) Falsified colour perception during sunrise and sunset

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

---

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

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

**25. What is the approximate speed of electromagnetic wave propagation?**

---

- a) 123000 m/s
- b) 300000 km/s
- c) 123000 km/s
- d) 300000 m/s

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

---

- 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.

**27. Given: QDR: 022° VAR: 10° E The QTE equals...**

---

- a) 212°.
- b) 202°
- c) 052°.
- d) 032°.

**28. Wet snow on a runway can lead to...**

---

- a) An increase in lift.
- b) A decrease in lift.
- c) Reduced rolling resistance during take-off.
- d) Increased rolling resistance during take-off.

**29. (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 43min Pressure Altitude = 6.500 ft Temperature = ISA-20 Power setting = 2300 RPM Taxi Fuel = 2 USG Additional time for climb = 7 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**

---

- a) 47.3 USG
- b) 50.4 USG
- c) 43.8 USG
- d) 39.2 USG

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

## 30. What is the difference between a locator beacon and a non-directional beacon (NDB)?

---

- a) Locator beacons transmit more precisely
- b) Locator beacons have a higher range than NDBs
- c) Locator beacons transmit on request only
- d) Locator beacons have a lower range than NDBs

## 31. The altimeter has to be set to what value in order to show zero on ground?

---

- a) QNH
- b) QNE
- c) QTE
- d) QFE

## 32. Which answer is correct concerning stress?

---

- a) Stress can occur if there seems to be no solution for a given problem
- b) Training and experience have no influence on the occurrence of stress
- c) Stress and its different symptoms are irrelevant for flight safety
- d) Everybody reacts to stress in the same manner

## 33. Where is interference drag generated?

---

- a) At the wing root
- b) At the ailerons
- c) At the the gear
- d) Near the wing tips

## 34. What does a cloud coverage of "BKN" mean in a METAR weather report?

---

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

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

**35. "Longitudinal stability" is referred to as stability around which axis?**

---

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

**36. The term "ceiling" is defined as the...**

---

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

**37. What is the true airspeed (TAS) [kt] and fuel consumption [l/h] for cruise flight with 70 % power in flight level 60 under the following conditions? Temperature: ISA - 20° C QNH: 980 hPa See annex (PFP-012) (2,00 P.) Siehe Anlage 10**

---

- a) 110 kt. 23.9 l/h.
- b) 100 kt. 19.3 l/h.
- c) 95 kt. 19.6 l/h.
- d) 105 kt. 21.5 l/h

**38. Which would be the correct reaction when hydroplaning is suspected upon landing?**

---

- a) Add power and use flaps and spoilers to brake aerodynamically
- b) Apply maximum braking to reduce aircraft speed to less than hydroplaning speed, then continue normal ground roll
- c) Cross rudder and aileron controls in order to use the aircraft fuselage to brake aerodynamically
- d) If all wheels are in motion, brake moderately. Maintain directional control by aerodynamic means

**39. The position of the center of gravity (including fuel) equals... See figure(PFP-053e) (1,00 P.) Siehe Anlage 2**

---

- a) 37.1 cm
- b) 0.401 m
- c) 37.3 cm
- d) 0.403 m.



# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

**40. What is the call sign of the flight information service?**

---

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

**41. Using primary ground radar, the direction of the aeroplane in relation to the antenna is determined by...**

---

- a) The pulse pair interval
- b) The orientation of the antenna.
- c) The frequency shift of the received pulse
- d) Time measurement.

**42. The term 'True Course' (TC) is defined as...**

---

- a) The angle between magnetic north and the course line.
- b) The direction from an arbitrary point on Earth to the geographic North Pole.
- c) The angle between true north and the course line
- d) The direction from an arbitrary point on Earth to the magnetic north pole

**43. The position of the center of gravity equals... See figure (PFP-052e) (1,00 P.) Siehe Anlage 1**

---

- a) 147.5 in.
- b) 145.7 in.
- c) 142 in.
- d) 137.5 in

**44. What is the nature of the flight shown in the given ATC flight plan? See annex (PFP-051a) (1,00 P.) Siehe Anlage 19**

---

- a) Night flight under visual flight rules.
- b) Flight under instrument flight rules.
- c) Traffic pattern under visual flight rules.
- d) Border crossing flight.

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

## 45. The pressure compensation between wind upper and lower surface results in ...

---

- a) Laminar airflow by wing tip vortices.
- b) Profile drag by wing tip vortices.
- c) Induced drag by wing tip vortices.
- d) Lift by wing tip vortices

## 46. In which situations should a pilot use blind transmissions?

---

- a) When no radio communication can be established with the appropriate aeronautical station, but when evidence exists that transmissions are received at that ground unit
- b) When a pilot has flown into cloud or fog unintentionally and therefore would like to request navigational assistance from a ground unit
- c) When a transmission containing important navigational or technical information is to be sent to several stations at the same time
- d) When the traffic situation at an airport allows the transmission of information which does not need to be acknowledged by the ground station

## 47. The term "maximum elevation figure" (MEF) is defined as...

---

- a) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude.
- b) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude plus a safety margin, rounded to the next higher 100 ft.
- c) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude plus a safety margin of 1000 ft (305 m), rounded to the next higher 100 ft
- d) The highest elevation within an area covering 1 degree of latitude and 1 degree of longitude plus a safety margin, rounded to the next lower 100 ft.

## 48. Which of the stated surfaces will reduce the wind speed most due to ground friction?

---

- a) Flat land, deserted land, no vegetation
- b) Oceanic areas
- c) Mountainous areas, vegetation cover
- d) Flat land, lots of vegetation cover

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

**49. In a METAR, "heavy rain" is designated by the identifier...**

---

- a) RA
- b) +SHRA
- c) SHRA
- d) +RA

**50. Which process may result in an inversion layer at about 5000 ft (1500 m) height?**

---

- a) Intensive sunlight insolation during a warm summer day
- b) Widespread descending air within a high pressure area
- c) Ground cooling by radiation during the night
- d) Advection of cool air in the upper troposphere

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

---

- 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

**52. Light turbulence always has to be expected...**

---

- a) Above cumulus clouds due to thermal convection.
- b) Below stratiform clouds in medium layers.
- c) When entering inversions
- d) Below cumulus clouds due to thermal convection

**53. Which area is suitable for an off-field landing?**

---

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

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

**54. For what approximate time period can the short-time memory store information?**

---

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

**55. Which of the following is responsible for the blood coagulation?**

---

- a) Red blood cells (erythrocytes)
- b) Capillaries of the arteries
- c) White blood cells (leucocytes)
- d) Blood plates (thrombocytes)

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

---

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

**57. Immediately after lift-off, a microburst is entered inadvertently. Which action might avoid an unintentional descent?**

---

- a) Immediately after lift-off, a microburst is entered inadvertently. Which action might avoid an unintentional descent?
- b) Set maximum power, retract landing gear and flaps, pick up speed and perform a left or a right turn in an attempt to leave the area of the microburst on the shortest way
- c) Set maximum power, retract landing gear and flaps, increase pitch until attaining optimum climb speed
- d) Set maximum power, maintain present aircraft configuration, pick up speed in an attempt to leave the area of the microburst as fast as possible

**58. A true altitude is...**

---

- a) A height above ground level corrected for non-standard pressure.
- b) A height above ground level corrected for non-standard temperature.
- c) A pressure altitude corrected for non-standard temperature.
- d) An altitude above mean sea level corrected for non-standard temperature

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

**59. Which of the following options are possible SSR-Transponder modes?**

---

- a) A, C, S
- b) A, C, R
- c) B, C, V
- d) B, R, S

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

---

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

**61. Considering the following fuel data, how much trip fuel is required? Fuel for start-up and taxi: 5 L Fuel for take-off and climb: 12 L Fuel for cruise flight: 25 L Fuel for descent, approach and landing: 7 L Fuel for taxi and parking: 3 L Fuel to alternate: 13 L Final reserve fuel: 10 L**

---

- a) 75 L
- b) 52 L
- c) 49 L
- d) 44 L

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

---

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

**63. 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**

---

- 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.

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

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

---

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

**65. What is the meaning of a flashing green light signal at a controlled aerodrome directed to an aircraft on ground?**

---

- a) Cleared to taxi
- b) Return to starting point
- c) Land at this airport and proceed to the apron
- d) Cleared for take-off

**66. The specified speed in the ATS flight plan equals: See annex (PFP-051) (1,00 P.) Siehe Anlage 20**

---

- a) 1000 kt
- b) 100 m/h.
- c) 100 km/h
- d) 100 kt.

**67. What is the minimum flight visibility in airspace "C" below FL 100 for an aircraft operating under VFR?**

---

- a) 5 km
- b) 10 km
- c) 1.5 km
- d) 8 km

**68. (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**

---

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

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

---

## 69. 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)

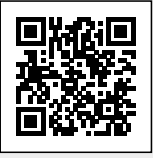
---

## 70. What pressure pattern may result from cold-air inflow in high tropospheric layers?

- a) Formation of a low in the upper troposphere
- b) Formation of a high in the upper troposphere
- c) Formation of a large ground low
- d) Alternating pressure

# Simulazione di Esame

Aircraft General Knowledge - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

## Schema Risposte

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

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