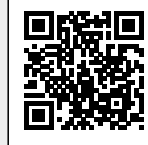


# Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

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

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

**02. In order to improve the stall characteristics of an aircraft, the wing is twisted outwards (the angle of incidence varies spanwise). This is known as...**

- a) Aerodynamic washout
- b) Arrow shape
- c) V-form.
- d) Geometric washout

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

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

**04. VOR radials are defined based on the principle of...**

- a) Phase comparison of two signals.
- b) Frequency comparison of two signals.
- c) Pulse comparison of two signals
- d) Amplitude comparison of two signals.

# Simulazione di Esame

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



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

---

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

**06. 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

**07. Which distances to clouds have to be maintained during a VFR flight in airspaces C, D and E?**

---

- a) 1500 m horizontally, 1000 ft vertically
- b) 1500 m horizontally, 1000 m vertically
- c) 1000 m horizontally, 1500 ft vertically
- d) 1000 m horizontally, 300 m vertically

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

---

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

**09. Regarding the communication model, how can the use of the same code during radio communication be ensured?**

---

- a) By the use of radio phraseology
- b) By using radios certified for aviation use only
- c) By the use of proper headsets
- d) By a particular frequency allocation

# Simulazione di Esame

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



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**10. A light aircraft intends to land behind a commercial airliner belonging to wake turbulence category "medium" or "heavy" on a long runway. How can the wake turbulence of the commercial aircraft be avoided?**

---

- a) By making a steep approach and a long landing, touching down behind the touchdown point of the airliner's nose gear
- b) By making a steep approach and a very short landing. The light aircraft should be able to stop before reaching the airliner's touchdown point
- c) By making a shallow approach and a long landing, touching down behind the touchdown point of the airliner's nose gear
- d) By making a shallow approach and a very short landing. The light aircraft should be able to stop before reaching the airliner's touchdown point

**11. 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

**12. Exceeding the maximum allowed aircraft mass is...**

---

- a) Not permissible and essentially dangerous
- b) Only relevant if the excess is more than 10 %
- c) Compensated by the pilot's control inputs
- d) Exceptionally permissible to avoid delays.

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

---

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

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

---

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

# Simulazione di Esame

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**15. When increasing the airflow speed by a factor of 2 while keeping all other parameters constant, how does the parasite drag change approximately?**

---

- a) It decreases by a factor of 2
- b) It increases by a factor of 2
- c) It decreases by a factor of 4
- d) It increases by a factor of 4

**16. During a stall, the lift...**

---

- a) During a stall, the lift...
- b) Increases and drag decreases.
- c) Increases and drag increases.
- d) Decreases and drag decreases.

**17. A wind shear is...**

---

- a) A slow increase of the wind speed in altitudes above 13000 ft.
- b) A wind speed change of more than 15 kt.
- c) A vertical or horizontal change of wind speed and wind direction
- d) A meteorological downslope wind phenomenon in the alps

**18. In which phase of flight must the carburettor heating be switched off although carburettor icing might be expected?**

---

- a) During climb
- b) During cruise
- c) During taxi
- d) During take-off

**19. 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.

# Simulazione di Esame

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



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## 20. Under which circumstances may a runway be considered to be contaminated?

---

- a) When more than 25 % of the runway surface area within the required length and width being used is covered by water, slush, snow or ice more than 3 mm deep
- b) When 75 % of the required runway length and width are covered by contaminants such as snow, frost, ice or sand
- c) When more than 50 % of the runway surface area within the required length and width being used is covered by water, slush, snow or ice more than 3 mm deep
- d) When more than 50 % of the required runway length and width are covered by contaminants such as snow, frost, ice or sand

## 21. What is the meaning of the abbreviation "TRA"? (

---

- a) Temporary Reserved Airspace
- b) Temporary Radar Routing Area
- c) Transponder Area
- d) Terminal Area

## 22. What does a readability of 1 indicate?

---

- a) The transmission is perfectly readable
- b) The transmission is unreadable
- c) The transmission is readable but with difficulty
- d) The transmission is readable now and then

## 23. What is meant by the term "terrestrial navigation"?

---

- a) Orientation by ground celestial object during visual flight
- b) Orientation by ground features during visual flight
- c) Orientation by GPS during visual flight
- d) Orientation by instrument readings during visual flight

## 24. Which altitude is displayed on the altimeter when set to a specific QFE?

---

- a) Altitude in relation to the 1013.25 hPa datum
- b) Altitude in relation to the air pressure at the reference airfield
- c) Altitude in relation to the highest elevation within 10 km
- d) Altitude in relation to mean sea level

# Simulazione di Esame

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



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

---

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

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

---

- 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

## 27. What are the minimum distances to clouds for a VFR flight in airspace "B"?

---

- a) Horizontally 1.500 m, vertically 1.000 m
- b) Horizontally 1.500 m, vertically 300 m
- c) Horizontally 1.000 m, vertically 1.500 ft
- d) Horizontally 1.000 m, vertically 300 m

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

---

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

## 29. Number 1 on the gear designates the... See figure (AGK-005) (1,00 P.) Siehe Anlage 3

---

- a) Fork
- b) Strut
- c) Torque link
- d) Inner shock absorber.

# Simulazione di Esame

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



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**30. The angle indicated by arrow number 1 shows the propeller's... See figure (AGK-011) D: Direction of air flow C: Chord line R: Direction of rotation (1,00 P.) Siehe Anlage 7**

---

- a) Angle of incidence.
- b) Angle of attack.
- c) Geometric wing twist
- d) Aerodynamic wing twist

**31. What is the principle of a Fowler flap?**

---

- 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

**32. The barometric altimeter indicates height above...**

---

- a) A selected reference pressure level.
- b) Mean sea level.
- c) Standard pressure 1013.25 hPa.
- d) Ground.

**33. How can a wind shear encounter in flight be avoided?**

---

- a) Avoid take-off and landing during the passage of heavy showers or thunderstorms
- b) Avoid areas of precipitation, particularly during winter, and choose low flight altitudes
- c) Avoid take-offs and landings in mountainous terrain and stay in flat country whenever possible
- d) Avoid thermally active areas, particularly during summer, or stay below these areas

**34. A distance of 7.5 cm on an aeronautical chart represents a distance of 60.745 NM in reality. What is the chart scale?**

---

- a) 1 : 500000
- b) 1 : 1 000000
- c) 1 : 150000
- d) 1 : 1500000

# Simulazione di Esame

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



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**35. In which way is a SEP (land) rating renewed if you do not meet the required flight time?**

---

- a) A proficiency check with an examiner
- b) According to the flight experience there have to be several training flights under supervision of an ATO
- c) The ATO can renew the rating after a training flight with a flight instructor
- d) The required flight experience has to be accumulated under supervision of a flight instructor

**36. 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?**

---

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

**37. The directional information "12 o'clock" is correctly transmitted as...**

---

- a) One two.
- b) One two o'clock
- c) One two hundred.
- d) Twelve o'clock.

**38. Anemic hypoxia can be caused by...**

---

- a) Carbon monoxide poisoning.
- b) Low pressure
- c) High altitudes.
- d) Alcohol

**39. What wind is reportet as 225/15 ?**

---

- a) North-east wind with 15 kt
- b) South-west wind with 15 km/h
- c) North-east wind with 15 km/h
- d) South-west wind with 15 kt



# Simulazione di Esame

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



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

---

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

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

---

- 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

**42. What information is provided in the part "AD" of the AIP?**

---

- a) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces
- b) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts
- c) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees
- d) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods

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

---

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

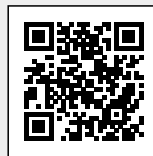
**44. How is referred to a tubular steel construction with a non self-supporting skin?**

---

- a) Semi-monocoque construction.
- b) Grid construction
- c) Honeycomb structure
- d) Monocoque construction

# Simulazione di Esame

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



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## 45. The majority of aviation accidents are caused by...

---

- a) Technical failure
- b) Meteorological influences.
- c) Geographical influences.
- d) Human failure.

## 46. Which of the following frequencies is designated for VHF voice communication?

---

- a) 118.75 kHz
- b) 327.25 MHz
- c) 327.25 kHz
- d) 118.75 MHz

## 47. What is the minimum age to start a private pilot training at a flight school?

---

- a) 16 years
- b) 17 years
- c) 21 years
- d) 18 years

## 48. What is the difference between spin and spiral dive?

---

- a) Spin: stall at outer wing, speed constant; Spiral dive: airflow at both wings, speed increasing rapidly
- b) Spin: stall at inner wing, speed constant; Spiral dive: airflow at both wings, speed increasing rapidly
- c) Spin: stall at outer wing, speed increasing rapidly; Spiral dive: airflow at both wings, speed constant
- d) Spin: stall at inner wing, speed increasing rapidly; Spiral dive: airflow at both wings, speed constant

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

---

- 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

# Simulazione di Esame

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



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**50. Given: True course from A to B: 283°. Ground distance: 75 NM. TAS: 105 kt. Headwind component: 12 kt. Estimated time of departure (ETD): 1242 UTC. The estimated time of arrival (ETA) is...**

---

- a) 1430 UTC
- b) 1356 UTC
- c) 1330 UTC
- d) 1320 UTC

**51. The barometric altimeter with QFE setting indicates...**

---

- a) Height above the pressure level at airfield elevation.
- b) True altitude above MSL.
- c) Height above MSL.
- d) Height above standard pressure 1013.25 hPa

**52. The altimeter can be checked on the ground by setting...**

---

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

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

---

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

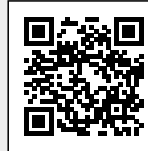
**54. What structural item provides directional stability to an airplane?**

---

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

# Simulazione di Esame

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



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**55. The upper limit of LO R 4 equals... See annex (PFP-030) (1,00 P.) Siehe Anlage 16**

---

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

**56. Wake turbulence is particularly strong...**

---

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

**57. Which of the following options states a correct position report?**

---

- a) DEABC reaching "N"
- b) DEABC over "N" in FL 2500 ft
- c) DEABC, "N", 2500 ft
- d) DEABC over "N" at 35

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

---

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

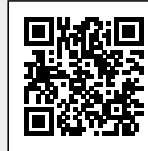
**59. What is the required flight time for a distance of 236 NM with a ground speed of 134 kt?**

---

- a) 1:34 h
- b) 0:46 h
- c) 1:46 h
- d) 0:34 h

# Simulazione di Esame

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



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## 60. Which items should a passenger briefing in case of an imminent emergency landing include?

- a) How to work the aircraft radio, emergency transponder squawk, telephone number of the competent search and rescue (SAR) center
- b) Blood type of the other aircraft occupants, location of the first-aid kit
- c) Nature of the emergency, intentions, safety position, evacuation routes, actions after landing
- d) How to read an emergency checklist, how to cut the engine, telephone number of the home airport

## 61. What does the dynamic pressure depend directly on?

- a) Air pressure and air temperature
- b) Air density and airflow speed squared
- c) Air density and lift coefficient
- d) Lift- and drag coefficient

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

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

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

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

## 64. What is the distance from VOR Brünkendorf (BKD) (53°02'N, 011°33'E) to Pritzwalk (EDBU) (53°11'N, 12°11'E)? See annex (NAV-031) (1,00 P.) Siehe Anlage 3

- a) 24 km
- b) 42 NM
- c) 24 NM
- d) 42 km

# Simulazione di Esame

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



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**65. Which tail assembly is shown in the attachment? See figure (AGK-003) (1,00 P.) Siehe Anlage 2**

---

- a) V-tail
- b) T-tail
- c) Fuselage-mounted tail
- d) Cruciform tail

**66. Which conditions are likely for the formation of advection fog?**

---

- a) Cold, humid air moves over a warm ocean
- b) Warm, humid air moves over a cold surface
- c) Warm, humid air cools during a cloudy night
- d) Humidity evaporates from warm, humid ground into cold air

**67. The position of the the center of pressure at a positively shaped profile...**

---

- a) Moves to the leading edge while the angle of attack becomes smaller.
- b) Is located at approximately 25% of the chord, measured from the leading edge
- c) Moves to the trailing edge while the angle of attack becomes smaller.
- d) Does not move since it is independent of the angle of attack.

**68. Where is the aircraft located in relation to the VOR? See annex (NAV-022) (1,00 P.) Siehe Anlage 7**

---

- a) Northeast
- b) Southeast
- c) Southwest
- d) Northwest

**69. QNE is the...**

---

- 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.

# Simulazione di Esame

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



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## 70. What does the abbreviation "FIS" stand for?

---

- a) Flashing information service
- b) Flight information system
- c) Flashing information system
- d) Flight information service

# Simulazione di Esame

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



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## Schema Risposte

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

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