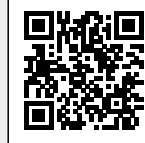


# Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

## 01. During a flight, a flight plan can be filed at the...

- a) Flight Information Service (FIS).
- b) Search and Rescue Service (SAR).
- c) Next airport operator en-route.
- d) Aeronautical Information Service (AIS).

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

- 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

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

- 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.

## 04. What is the meaning of the abbreviation "VMC"?

- a) Instrument flight conditions
- b) Variable meteorological conditions
- c) Visual meteorological conditions
- d) Visual flight rules

# Simulazione di Esame

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## 05. What is the function of the horizontal tail (among other things)?

---

- a) To stabilise the aeroplane around the lateral axis
- b) To initiate a curve around the vertical axis
- c) To stabilise the aeroplane around the longitudinal axis
- d) To stabilise the aeroplane around the vertical axis

## 06. An attitude director indicator (ADI) combines the information provided by...

---

- 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

## 07. 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, flattened Cu clouds.

## 08. Which Q-code is used for the true bearing from the station?

---

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

## 09. How can a wind direction indicator be marked for better visibility?

---

- a) The wind direction indicator may be mounted on top of the control tower
- b) The wind direction indicator could be made from green materials
- c) The wind direction indicator could be surrounded by a white circle
- d) The wind direction indicator could be located on a big black surface.

# Simulazione di Esame

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**10. (For this question, please use annex PFP-063) According ICAO, what symbol indicates a general spot elevation? (2,00 P.) Siehe Anlage 24**

---

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

**11. Smoke enters the cockpit during an engine fire. Which actions have to be taken immediately?**

---

- a) Switching off the master switch and the ignition
- b) Switching off the heating and the ventilating system
- c) Switching off the pitot and front window heating
- d) Switching off the avionics and the cabin lighting

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

---

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

**13. 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

**14. 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.

# Simulazione di Esame

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**15. What is the meaning of a steady green light signal at a controlled aerodrome directed to an aircraft in flight?**

---

- a) Give way to other aircraft and continue circling
- b) Cleared to land
- c) Return for landing, followed by steady green at the appropriate time
- d) Airport unsafe, do not land

**16. Which of the stated materials shows the highest strength?**

---

- a) Carbon fiber re-inforced plastic
- b) Aluminium
- c) Wood
- d) Magnesium

**17. Which abbreviation is used for the term "abeam"?**

---

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

**18. What can be expected for the prevailing wind with isobars on a surface weather chart showing large distances?**

---

- a) Strong pressure gradients resulting in strong prevailing wind
- b) Strong pressure gradients resulting in low prevailing wind
- c) Low pressure gradients resulting in strong prevailing wind
- d) Low pressure gradients resulting in low prevailing wind

**19. Which option states a benefit of wing washout?**

---

- a) Structurally the wing is made more rigid against rotation
- b) With the washout the form drag reduces at high speeds
- c) Greater hardness because the wing can withstand more torsion forces
- d) At high angles of attack the effectiveness of the aileron is retained as long as possible

# Simulazione di Esame

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**20. In which way does the position of the center of pressure move at a positively shaped profile with increasing angle of attack?**

---

- a) It moves backward until reaching the critical angle of attack
- b) It moves forward first, then backward
- c) It moves forward until reaching the critical angle of attack
- d) It moves to the wing tips

**21. Mountain side updrafts can be intensified by ...**

---

- a) Solar irradiation on the windward side
- b) Solar irradiation on the lee side
- c) By warming of upper atmospheric layers
- d) Thermal radiation of the windward side during the night

**22. How should departures near villages be carried out?**

---

- a) Slow with a low propeller rotation speed
- b) Low and fast between the villages
- c) Climb and changes in direction should be done as slow as possible
- d) Villages should be circumnavigated and crossed in a sufficient altitude

**23. Air consists of oxygen, nitrogen and other gases. What is the approximate percentage of other gases?**

---

- a) 0.1 %
- b) 78 %
- c) 1 %
- d) 21 %

**24. 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

# Simulazione di Esame

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

---

- 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.

**26. An aircraft is flying with a true airspeed (TAS) of 120 kt and experiences 35 kt tailwind. How much time is needed for a distance of 185 NM?**

---

- a) 1 h 32 min
- b) 0 h 50 min
- c) 1 h 12 min
- d) 2 h 11 min

**27. A boundary between a cold polar air mass and a warm subtropical air mass showing no horizontal displacement is called...**

---

- a) Cold front
- b) Warm front.
- c) Occluded front.
- d) Stationary front.

**28. 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

# Simulazione di Esame

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**29. Clouds in high layers are referred to as...**

---

- a) Nimbo-
- b) Strato-
- c) Alto-
- d) Cirro-

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

---

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

**31. Which altitude is transmitted by the transponder in mode C?**

---

- a) QFE altitude
- b) Pressure altitude
- c) QNH altitude
- d) Radio altitude

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

---

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

**33. What is the function of the red blood cells (erythrocytes)?**

---

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

# Simulazione di Esame

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**34. Which information from a ground station does not require readback?**

---

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

**35. What is the call sign of the surface movement control?**

---

- a) Tower
- b) Earth
- c) Ground
- d) Control

**36. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?**

---

- a) Roger
- b) Squawk 4321, wilco
- c) Squawk 4321, 131.325
- d) Wilco

**37. May an engine, which previously was on fire, be restarted?**

---

- a) No, the risk of a reignition of the fire would be too high
- b) Yes, if the aircraft is flying at a safe altitude
- c) Yes, but only on the ground for the purpose of taxiing
- d) Yes, but only if the cause of the fire was a carburettor fire during engine start

**38. A risk factor for decompression sickness is...**

---

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

# Simulazione di Esame

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**39. Which is the colour of runway end lights?**

---

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

**40. Which of the following is NOT a symptom of hyperventilation?**

---

- a) Cyanose
- b) Tingling
- c) Spasm
- d) Disturbance of consciousness

**41. 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

**42. Given the following data for a VFR flight: Trip fuel = 70 US gallons Contingency fuel = 5% of trip fuel. Alternate and final reserve fuel = 20 US gallons Usable fuel at take-off = 90 US gallons After half of the distance you read that you have consumed 30 US gallons. Assume that fuel flow remains unchanged. Which statement is correct?**

---

- a) The remaining fuel is insufficient for a landing at destination with alternate and final reserve fuel remaining.
- b) Upon landing 30.0 US gallons will remain in addition to alternate and final reserve fuel.
- c) Upon landing 10.0 US gallons will remain in addition to alternate and final reserve fuel.
- d) Upon landing a total of 10.0 US gallons will remain

**43. Which of the following frequencies is designated for VHF voice communication?**

---

- a) 120.50 MHz
- b) 115.15 MHz
- c) 108.80 MHz
- d) 117.30 kHz

# Simulazione di Esame

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**44. What is the take-off distance at 705 kg take-off mass, OAT 20° C, QNH 1013 hPa at an elevation of 3500 ft with 5 kt tailwind? See annex (PFP-009) (1,00 P.) Siehe Anlage 9**

---

- a) 720 m
- b) 880 m
- c) 790 m
- d) 820 m

**45. What is the correct frequency for an initial distress message?**

---

- a) Emergency frequency
- b) Current frequency
- c) FIS frequency
- d) Radar frequency

**46. 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

**47. The load factor "n" describes the relationship between...**

---

- a) Thrust and drag.
- b) Drag and lift.
- c) Lift and weight.
- d) Weight and thrust.

**48. Wie beeinflusst die Lufttemperatur die Leistung eines Kolbenmotors?**

---

- a) Geringere Temperatur entspricht höherer Luftdichte, dies führt zu geringerer Motorleistung
- b) Höhere Temperatur entspricht geringerer Luftdichte, dies führt zu geringerer Motorleistung
- c) Höhere Temperatur entspricht höherer Luftdichte, dies führt zu höherer Motorleistung
- d) Geringere Temperatur entspricht geringerer Luftdichte, dies führt zu höherer Motorleistung

# Simulazione di Esame

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## 49. What is meant by "ground effect"?

---

- a) Increase of lift and increase of induced drag close to the ground
- b) Decrease of lift and increase of induced drag close to the ground
- c) Decrease of lift and decrease of induced drag close to the ground
- d) Increase of lift and decrease of induced drag close to the ground

## 50. What is the lowest possible VFR flight level if a true course of 181° is selected and a variation of 3° east exists?

---

- a) FL 050
- b) FL 060
- c) FL 055
- d) FL 065

## 51. What weather development will result from convergence at ground level?

---

- a) Descending air and cloud formation
- b) Ascending air and cloud dissipation
- c) Descending air and cloud dissipation
- d) Ascending air and cloud formation

## 52. Given the following conditions, the TAS equals... Outside air temperature: 10° C Pressure altitude: 6000 ft Power: 65 % See annex (PFP-014) (1,00 P.) Siehe Anlage 13

---

- a) 96 kt.
- b) 92 kt
- c) 88 kt.
- d) 100 kt.

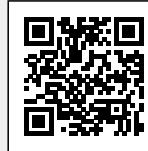
## 53. Given: Calibrated airspeed (CAS): 155 kt. Flight level (FL) 80. Outside air temperature (OAT): +15° C. The true airspeed (TAS) equals...

---

- a) 155 kts.
- b) 170 kts
- c) 180 kts
- d) 134 kts.

# Simulazione di Esame

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## 54. Which danger exists after a heavy rain shower for a landing aircraft?

---

- a) Displacement of the tire slip marking
- b) Difficult flare due to glare
- c) Longer braking distance due to aquaplaning
- d) Decreased braking distance due to aquaplaning

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

---

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

## 56. Which of the human senses is most influenced by hypoxia?

---

- a) The olfactory perception (smell)
- b) The tactile perception (sense of touch)
- c) The auditory perception (hearing)
- d) The visual perception (vision)

## 57. What behaviour is shown by a rotating gyro in space?

---

- a) It moves in accordance with the body surrounding it
- b) It tends to maintain its position in space
- c) It swings from east to west like a pendulum
- d) It moves in circles with a steadily decreasing radius

## 58. A movement around the longitudinal axis is primarily initiated by the...

---

- a) Rudder
- b) Ailerons
- c) Elevator
- d) Trim tab

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**59. The laminar boundary layer on the aerofoil is located between...**

---

- a) The transition point and the separation point.
- b) The stagnation point and the transition point.
- c) The transition point and the center of pressure
- d) The stagnation point and the center of pressure

---

**60. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL125?**

---

- a) 5000 m
- b) 3000 m
- c) 1500 m
- d) 8000 m

---

**61. The character of an air mass is given by what properties?**

---

- a) Temperatures at origin and present region
- b) Wind speed and tropopause height
- c) Region of origin and track during movement
- d) Environmental lapse rate at origin

---

**62. 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

---

**63. What does the abbreviation "H24" stand for?**

---

- a) Sunrise to sunset
- b) 24 h service
- c) No specific opening times
- d) Sunset to sunrise

# Simulazione di Esame

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---

**64. 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

---

**65. What are the air masses that Central Europe is mainly influenced by?**

- a) Arctic and polar cold air
- b) Polar cold air and tropical warm air
- c) Equatorial and tropical warm air
- d) Tropical and arctic cold air

---

**66. A pilot wants to approach an NDB on QDM 090°. The aircraft flies for about 5 minutes with a magnetic heading (MH) of 095° and the RBI indication of 355°. After 6 minutes the RBI indicates 358°. Which statement is correct?**

- a) The crosswind component increased; the pilot has to increase the MH
- b) The crosswind component increased; the pilot has to decrease the MH
- c) The crosswind component decreased; the pilot has to increase the MH
- d) The crosswind component decreased; the pilot has to decrease the MH

---

**67. How is the nose or tail wheel usually controlled on small aircraft and motor gliders?**

- a) By the steering wheel
- b) By the control column
- c) By weight movement
- d) By the pedals

---

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

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

# Simulazione di Esame

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## 69. How does wind affect the take-off performance?

---

- a) Tailwind aids the aircraft in overcoming the initial drag at the commencement of the take-off roll. The take-off distance will decrease
- b) Tailwind reduces the relative wind on the airfoil. The take-off distance will increase
- c) Headwind causes an increased airflow around the wing. The take-off distance will increase
- d) Headwind imposes an increased drag on the aircraft. The take-off distance will increase

## 70. 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

# Simulazione di Esame

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## Schema Risposte

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

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