

# 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. What distance corresponds to one degree difference in latitude along any degree of longitude?

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- a) 1 NM
- b) 60 NM
- c) 30 NM
- d) 60 km

## 02. What is the status of the rules and procedures created by the EASA? (e.g. Part-SFCL, Part-MED)

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- a) They have the same status as ICAO Annexes
- b) Only after a ratification by individual EU member states they are legally binding
- c) They are not legally binding, they only serve as a guide
- d) They are part of the EU regulation and legally binding to all EU member states

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

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

## 04. What is the distance from Neustadt (EDAN) (53°22'N, 011°37'E) to Uelzen (EDVU) (52°59'N, 10°28'E)? See annex (NAV-031) (1,00 P.) Siehe Anlage 3

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- a) 46 NM
- b) 78 km
- c) 46 km
- d) 78 NM

## 05. Regarding the type of cloud, precipitation is classified as...

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- a) Light and heavy precipitation.
- b) Showers of snow and rain
- c) Prolonged rain and continuous rain.
- d) Rain and showers of rain.

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**06. 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

**07. What does the term "confirmation bias" mean?**

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- a) The feedback loop in a closed communication
- b) The preference to find arguments to proof the own mental model
- c) The bias to confirm each radio call
- d) The critical check of ambiguous situations in flight

**08. Which of the following messages has the highest priority?**

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- a) Turn left
- b) Request QDM
- c) QNH 1013
- d) Wind 300 degrees, 5 knots

**09. Given: QDR: 067° VAR: 5° E The QDM equals...**

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- a) 247°
- b) 072°
- c) 252°
- d) 257°

**10. An aircraft is flying with a true airspeed (TAS) of 180 kt and a headwind component of 25 kt for 2 hours and 25 minutes. The distance flown equals...**

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- a) 693 NM
- b) 435 NM.
- c) 375 NM.
- d) 202 NM.

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## 11. An emergency landing is a landing...

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- 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

## 12. What is the mean height of the tropopause according to ISA (ICAO Standard Atmosphere)?

---

- a) 18000 ft
- b) 11000 ft
- c) 11000 m
- d) 36000 m

## 13. A deceleration during a straight horizontal flight can lead to the illusion of...

---

- a) A climb.
- b) A descent.
- c) A bank.
- d) An inverted flight.

## 14. What cloud type does the picture show? See figure (MET-004).Siehe Anlage 3

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- a) Altocumulus
- b) Cumulus
- c) Stratus
- d) Cirrus

## 15. What must be considered for cross-border flights?

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- a) Transmission of hazard reports
- b) Regular location messages
- c) Approved exceptions
- d) Requires flight plans

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## 16. 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

## 17. Given the following conditions, the fuel consumption equals... Pressure altitude: 2000 ft Temperature: 31° C RPM: 2400 See annex (PFP-012) (1,00 P.) Siehe Anlage 10

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- a) 19.5 l/h.
- b) 19.1 l/h.
- c) 21.7 l/h
- d) 22.8 l/h

## 18. What is the true airspeed (TAS) [kt] and fuel consumption [l/h] for cruise flight with 60 % 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

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- a) 96 kt. 19.1 l/h.
- b) 95 kt. 19.6 l/h.
- c) 110 kt. 25.1 l/h.
- d) 95,75 kt. 19.8 l/h.

## 19. A flight is called a "visual flight", if the...

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- a) Visibility in flight is more than 8 km.
- b) Flight is conducted under visual flight rules.
- c) Visibility in flight is more than 5 km.
- d) Flight is conducted in visual meteorological conditions.

## 20. The "swiss cheese model" can be used to explain the...

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- a) Error chain.
- b) Procedure for an emergency landing.
- c) Optimal problem solution.
- d) State of readiness of a pilot.

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**21. The height of the tropopause of the International Standard Atmosphere (ISA) is at...**

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- a) 5500 ft.
- b) 11000 ft.
- c) 36000 ft.
- d) 48000 ft.

**22. Which phrase does a pilot use when he / she wants to check the readability of his / her transmission?**

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- a) What is the communication like?
- b) How do you read?
- c) Request readability
- d) You read me five

**23. Given values: Calculated take-off mass = 746 kg calculated CG = 37.1 cm fuel burn = 30.5 l on station 45 cm. Where is the CG situated after the landing?**

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- a) 37.2 cm
- b) 37.5 cm
- c) 36.3 cm
- d) 36.9 cm

**24. What is the true course (TC) from Uelzen (EDVU) (52°59'N, 10°28'E) to Neustadt (EDAN) (53°22'N, 011°37'E)? See annex (NAV-031) (1,00 P.) Siehe Anlage 3**

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- a) 241°
- b) 235°
- c) 061°
- d) 055°

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

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- 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

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## 26. The altimeter can be checked on the ground by setting...

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- 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.

## 27. 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

## 28. The circumference of the Earth at the equator is approximately... See figure (NAV-002) (1,00 P.) Siehe Anlage 1

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- a) 10800 km.
- b) 40000 NM.
- c) 12800 km
- d) 21600 NM.

## 29. Which factor can be changed by deploying flaps for landing?

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- a) The position of the center of gravity
- b) The effectiveness of the ailerons
- c) The twist effect of the engine
- d) The trim condition

## 30. 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

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**31. Which point on the aerofoil is represented by number 3? See figure (PFA-009) (1,00 P.) Siehe Anlage 2**

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- a) Separation point
- b) Center of pressure
- c) Stagnation point
- d) Transition point

**32. What chart shows areas of precipitation?**

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- a) GAFOR
- b) Wind chart
- c) Satellite picture
- d) Radar picture

**33. What radio navigation aid can be received with the attached aerial? See figure (NAV-017) (1,00 P.) Siehe Anlage 5**

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

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

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

**35. In a co-ordinated turn, how is the relation between the load factor (n) and the stall speed (Vs)?**

---

- a) N is smaller than 1, Vs is greater than in straight and level flight
- b) N is greater than 1, Vs is greater than in straight and level flight.
- c) N is smaller than 1, Vs is smaller than in straight and level flight.
- d) N is greater than 1, Vs is smaller than in straight and level flight

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## 36. 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.

## 37. Rudder deflections result in a turn of the aeroplane around the...

---

- a) Rudder axis
- b) Lateral axis
- c) Vertical axis.
- d) Longitudinal axis.

## 38. For a take-off from runway 22 and a reported wind of 250°/10 kt, the longitudinal wind component equals...

---

- a) 9 kt tailwind
- b) 5 kt tailwind.
- c) 9 kt headwind.
- d) 9 kt headwind.

## 39. What is shown on the printed sign? See figure (ALW-019) Siehe Anlage 1

---

- a) Point A on a taxiway
- b) Part A of the runway
- c) Taxiway A
- d) Parking position A

## 40. Radio waves within the VHF range (e.g. VOR) travel as...

---

- a) Sky wave and ground / surface wave.
- b) Ground / surface wave.
- c) Sky wave.
- d) Space wave (quasi-optical).



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**41. An aeroplane's current supply is carried out by the: 1. Battery 2. Generator 3. Relay 4. Circuit breaker**

---

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

**42. 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.

**43. 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

**44. 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

**45. 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

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## 46. What is the meaning of the phrase "Correction"?

---

- a) Permission for proposed action is granted
- b) An error has been made in this transmission. The correct version is...
- c) I have received all of your last transmission
- d) I understand your message and will comply with it

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

---

- 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

## 48. 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

## 49. In a METAR, "(moderate) showers of rain" are designated by the identifier...

---

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

## 50. Which statement is correct with regard to the polar axis of the Earth?

---

- a) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is perpendicular to the plane of the equator
- b) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is at an angle of 23.5° to the plane of the equator
- c) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is perpendicular to the plane of the equator
- d) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is at an angle of 66.5° to the plane of the equator

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## 51. Quasi-optical waves travel...

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- a) Along the surface of the earth
- b) Through the air directly from the transmitter to the receiver.
- c) Through the air and are influenced (e.g. reflected) by the ionosphere
- d) Along the surface of the earth, but are absorbed by the sea.

## 52. When extending the flaps for landing at constant angle of attack, in which way does the lift coefficient change far before reaching the maximum lift coefficient?

---

- a) It decreases
- b) It is not possible to define
- c) It increases
- d) It remains constant

## 53. 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

## 54. The term "balance arm" in the context of a mass and balance calculation defines the...

---

- a) Distance from the datum to the center of gravity of a mass.
- b) Distance of a mass from the center of gravity.
- c) Point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- d) Point through which the force of gravity is said to act on a mass.

## 55. What pressure pattern can be observed during the passage of a polar front low?

---

- a) Rising pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- b) Falling pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- c) Falling pressure in front of the warm front, constant pressure within the warm sector, falling pressure behind the cold front
- d) Rising pressure in front of the warm front, rising pressure within the warm sector, falling pressure behind the cold front

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## 56. What weather conditions can be expected in high pressure areas during winter?

---

- a) Changing weather with passing of frontal lines
- b) Calm weather and cloud dissipation, few high Cu
- c) Calm winds and widespread areas with high fog
- d) Squall lines and thunderstorms

## 57. 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...

---

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

## 58. What is the meaning of the 1:60 rule?

---

- a) 6 NM lateral offset at 1° drift after 10 NM
- b) 60 NM lateral offset at 1° drift after 1 NM
- c) 1 NM lateral offset at 1° drift after 60 NM
- d) 10 NM lateral offset at 1° drift after 60 NM

## 59. 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

## 60. 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

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**61. Given a visibility of 12 km, what is the correct way to transmit this visibility?**

---

- a) One-two kilometers
- b) Twelve kilometers
- c) One-zero kilometers or more
- d) One-zero kilometers.

**62. Which are the advantages of sandwich structures?**

---

- a) High temperature durability and low weight
- b) Low weight, high stiffness, high stability, and high strength
- c) Good formability and high temperature durability
- d) High strength and good formability

**63. Through which factor listed below does the load factor increase during cruise flight?**

---

- a) A forward centre of gravity
- b) Higher aeroplane weight
- c) An upward gust
- d) Lower air density

**64. What does "WATER PATCHES" mean regarding the reported runway condition?**

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- a) A large part of the surface is flooded
- b) Patches of standing water are visible
- c) Wet surface, but no significant patches are visible
- d) The runway is clear of water, ice, and snow

**65. In which situation is it NOT possible to achieve a pressure compensation between the middle ear and the environment?**

---

- a) During a light and slow climb
- b) All windows are completely closed
- c) Breathing takes place using the mouth only
- d) The eustachien tube is blocked

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**66. Measured pressure distribution in MSL and corresponding frontal systems are displayed by the...**

---

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

**67. What is the subject of ICAO Annex 1?**

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- a) Air traffic services
- b) Flight crew licensing
- c) Rules of the air
- d) Operation of aircraft

**68. Which is the colour of runway edge lights?**

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

**69. 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?**

---

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

**70. Given the following information, what is the aircraft position at the cross bearing? VOR Hamburg (HAM) (53°41'N, 010°12'E): Radial 119° VOR Brünkendorf (BKD) (53°02'N, 011°33'E): Radial 320° See annex (NAV-031) (1,00 P.) Siehe Anlage 3**

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- a) 52°20'N, 10°10'E
- b) 54°40'N, 12°50'E
- c) 54°40'N, 12°50'E
- d) 53°20'N, 11°10'E

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## Schema Risposte

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

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