

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. 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

02. Which of the following is NOT a symptom of hyperventilation?

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

03. 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

04. 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

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05. 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

- 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.

06. 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.

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

- 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

08. 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

09. The indication of a magnetic compass deviates from magnetic north direction due to what errors?

- a) Deviation, turning and acceleration errors
- b) Gravity and magnetism
- c) Inclination and declination of the earth's magnetic field
- d) Variation, turning and acceleration errors

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10. What does the abbreviation "FIS" stand for?

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

11. What does a readability of 3 indicate?

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

12. Complacency is a risk due to...

- a) The high number of mistakes normally made by humans.
- b) Increased cockpit automation.
- c) The high error rate of technical systems.
- d) Better training options for young pilots.

13. Which effect does a decreasing airspeed have on the induced drag during a horizontal and stable cruise flight?

- a) The induced drag will increase
- b) The induced drag will collapse
- c) The induced drag will remain constant
- d) The induced drag will slightly decrease

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

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15. 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

16. The center of gravity (CG) defines...

- a) The point on the longitudinal axis or its extension from which the centers of gravity of all masses are referenced.
- b) The point through which the force of gravity is said to act on a mass.
- c) The distance from the datum to the position of a mass.
- d) The product of mass and balance arm.

17. What is the call sign of the surface movement control?

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

18. The critical angle of attack...

- a) Increases with a front centre of gravity.
- b) Decreases with a rear centre of gravity.
- c) Is changed by different aircraft weights.
- d) Is not changed by different aircraft weights.

19. What information is NOT found on Low-Level Significant Weather Charts (LLSWC)?

- a) Information about icing conditions
- b) Radar echos of precipitation
- c) Information about turbulence areas
- d) Front lines and frontal displacements

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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. An aerodrome beacon (ABN) is a...

- a) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground.
- b) Rotating beacon installed at the beginning of the final approach to indicate its location to aircraft pilots from the air.
- c) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.
- d) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.

22. 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

23. What engines are commonly used with Touring Motor Gliders (TMG)?

- a) 4 Cylinder; 4 stroke
- b) 4 Cylinder 2 stroke
- c) 2 Cylinder Diesel
- d) 2 plate Wankel

24. All aerodynamic forces can be considered to act on a single point. This point is called...

- a) Center of gravity.
- b) Center of pressure.
- c) Lift point.
- d) Transition point.

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25. An aircraft is flying with an indicated airspeed (IAS) of 150 kt at 8000 ft MSL. According to the rule of thumb, the true airspeed (TAS) equals...

- a) 174 kt.
- b) 150 kt
- c) 142 kt.
- d) 208 kt

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

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

27. 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

28. 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

29. The result of a front C.G. position is: 1. Increase in stability. 2. Increase in fuel consumption. 3. Increase in stall speed. 4. Increase in range.

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

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30. 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

31. 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

32. A flight is called a "visual flight", if the...

- 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.

33. Cylinder head temperature indication relates to...

- a) All Cylinders.
- b) A random cylinder
- c) The critical cylinder
- d) The average of all cylinders.

34. Where does the inclination reach its lowest value?

- a) At the magnetic equator
- b) At the magnetic poles
- c) At the geographic equator
- d) At the geographic poles

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35. Deflecting the rudder to the left causes...

- 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

36. With increasing altitude and unchanged mixture setting, the air/fuel mixture...

- a) Becomes more lean
- b) Stays constant
- c) Becomes liquid
- d) Becomes richer.

37. 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.

38. The term "static pressure" is defined as pressure...

- a) Inside the airplane cabin.
- b) Of undisturbed airflow.
- c) Resulting from orderly flow of air particles.
- d) Sensed by the pitot tube.

39. Cold air inflow in high tropospheric layers may result in...

- a) Showers and thunderstorms.
- b) Stabilisation and calm weather
- c) Frontal weather.
- d) Calm weather and cloud dissipation.

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40. 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

41. An aircraft is following a true course (TC) of 220° at a constant TAS of 220 kt. The wind vector is 270°/50 kt. The ground speed (GS) equals...

- a) 170 kt
- b) 185 kt.
- c) 255 kt.
- d) 135 kt.

42. Given the following information, what range can be achieved? Outside air temperature: 22° C Pressure altitude: 2000 ft Power: 55 % See annex (PFP-013) (1,00 P.) Siehe Anlage 12

- a) 550 NM
- b) 480 NM
- c) 450 NM
- d) 500 NM

43. 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

44. What difference in altitude is shown by an altimeter, if the reference pressure scale setting is changed from 1000 hPa to 1010 hPa?

- a) 80 m less than before
- b) Values depending on QNH
- c) Zero
- d) 80 m more than before

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45. The term "datum" with regard to a mass and balance calculation defines...

- a) The point on the lateral axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- b) The point on the vertical axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- c) The point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- d) The distance from the reference plane to the center of gravity of an aircraft.

46. Anemic hypoxia can be caused by...

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

47. 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

48. 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

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

- 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

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50. What pressure pattern can be observed at a lift-generating wing profile at positive angle of attack?

- a) Low pressure is created above, higher pressure below the profile
- b) High pressure is created above, lower pressure below the profile
- c) Pressure above remains unchanged, higher pressure is created below the profile
- d) Pressure below remains unchanged, lower pressure is created above the profile

51. QFE is the...

- a) Barometric pressure at a reference datum, typically the runway threshold of an airfield.
- b) Barometric pressure adjusted to sea level, using the international standard atmosphere (ISA).
- c) Magnetic bearing to a station
- d) Altitude above the reference pressure level 1013.25 hPa

52. An aircraft is flying at aFL 75 with an outside air temperature (OAT) of -9°C. The QNH altitude is 6500 ft. The true altitude equals...

- a) 6500 ft
- b) 6750 ft
- c) 7000 ft.
- d) 6250 ft.

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

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

54. "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.

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55. How may windshear be recognised in flight?

- 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 oilpressure, oil temperature, engine speed and altitude
- d) Rather unexpected onset of drizzle associated with high stratus clouds following previously clear skies and calm conditions

56. 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.

57. In what cases is visibility transmitted in kilometers?

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

58. What is the purpose of the semi-circular rule?

- a) To avoid collisions by reducing the probability of opposing traffic at the same altitude
- b) To fly without a filed flight plan in prescribed zones published in the AIP
- c) To allow safe climbing or descending in a holding pattern
- d) To avoid collisions by suspending turning manoeuvres

59. What cloud sequence can typically be observed during the passage of a warm front?

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

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60. 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

61. An ATIS is valid for...

- a) 10 minutes
- b) 45 minutes.
- c) 60 minutes.
- d) 30 minutes

62. What information can be found in the ATIS, but not in a METAR?

- a) Information about current weather, for example types of precipitation
- b) Operational information such as runway in use and transition level
- c) Information about mean wind speeds, maximum speeds in gusts if applicable
- d) Approach information, such as ground visibility and cloud base

63. 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.

64. Why is it dangerous to pump the throttle for engine start in cold weather?

- a) It may cause a carburettor fire
- b) Carburettor icing can occur
- c) The engine might start with not enough power
- d) The oil will become diluted

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65. What is the purpose of "interception lines" in visual navigation?

- a) To visualize the range limitation from the departure aerodrome
- b) They help to continue the flight when flight visibility drops below VFR minima
- c) To mark the next available en-route airport during the flight
- d) They are used as easily recognizable guidance upon a possible loss of orientation

66. What process results in the formation of "orographic fog" ("hill fog")?

- a) Prolonged radiation during nights clear of clouds
- b) Warm, moist air is moved across a hill or a mountain range
- c) Cold, moist air mixes with warm, moist air
- d) Evaporation from warm, moist ground area into very cold air

67. 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

68. 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

69. What is the correct way of acknowledging the instruction "Call Hamburg Tower on 121.275"?

- a) Call 121.275
- b) Call tower
- c) 125.35.00
- d) Call tower on 121.275

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70. About how many axes does an aircraft move and how are these axes called?

- a) 4; optical axis, imaginary axis, sagged axis, axis of evil
- b) 4; vertical axis, lateral axis, longitudinal axis, axis of speed
- c) 3; x-axis, y-axis, z-axis
- d) 3; vertical axis, lateral axis, longitudinal axis

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Schema Risposte

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

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