

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. 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

02. 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

03. What is the subject of ICAO Annex 1?

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

04. 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...

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

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05. Which of the instruments listed below obtain their readings through pressure measurement?

- a) Oil pressure gauge, fuel pressure gauge, manifold pressure gauge, altimeter, vertical speed indicator, airspeed indicator, suction gauge
- b) Oil pressure gauge, fuel pressure gauge, fuel quantity gauge, manifold pressure gauge, differential pressure gauge, altimeter
- c) Airspeed indicator, vertical speed indicator, altimeter, directional gyro, turn and bank coordinator, oil pressure gauge, fuel pressure gauge
- d) Airspeed indicator, vertical speed indicator, altimeter, magnetic compass, oil pressure gauge, fuel pressure gauge

06. Which of the following is NOT a risk factor for hypoxia?

- a) Smoking
- b) Menstruation
- c) Blood donation
- d) Diving

07. What is the distance between the parallels of latitude 48°N and 49°N along a meridian line?

- a) 1 NM
- b) 60 NM
- c) 111 NM
- d) 10 NM

08. 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

09. An acceleration during a straight horizontal flight can lead to the illusion of...

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

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10. 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

11. What is the correct way to transmit the call sign OE-JVK?

- a) Omega Echo Jankee Victor Kilo
- b) Oscar Echo Jankee Victor Kilogramm
- c) Oscar Echo Juliett Victor Kilo
- d) Oscar Echo Juliett Victor Kilo

12. 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

13. Given: QTE: 203° VAR: 10° E The QDR equals...

- a) 023°.
- b) 213°
- c) 193°.
- d) 013°.

14. Reasons for dents in the helicopter structure are...

- a) Material defects or old colour.
- b) Intense erosion or high wear.
- c) Hard landing or excessive stress.
- d) Excessive engine rpm and cylinder defects.

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15. 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.

16. Which danger exists during engine start?

- a) Cable fire
- b) Carburettor fire
- c) Sparking
- d) Smoke emission

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

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

18. 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

19. What factors are required for the formation of precipitation in clouds?

- a) High humidity and high temperatures
- b) The presence of an inversion layer
- c) Calm winds and intensive sunlight insolation
- d) Moderate to strong updrafts

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20. How does a laminar boundary layer differ from a turbulent boundary layer?

- a) The laminar boundary layer produces lift, the turbulent boundary layer produces drag
- b) The turbulent boundary layer is thicker and provides less skin-friction drag
- c) The laminar boundary layer is thinner and provides more skin-friction drag
- d) The turbulent boundary layer can follow the airfoil camber at higher angles of attack

21. The term "tropopause" is defined as...

- a) The layer above the troposphere showing an increasing temperature.
- b) The boundary area between the mesosphere and the stratosphere.
- c) The boundary area between the troposphere and the stratosphere.
- d) The height above which the temperature starts to decrease.

22. When should turns at low altitudes above villages be avoided with regard to noise abatement procedures?

- a) In descent
- b) In climb
- c) During the approach
- d) In horizontal flight

23. 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.

24. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are the VAR and the DEV?

- a) VAR: 004° W. DEV: +002°.
- b) VAR: 004° W. DEV: -002°.
- c) VAR: 004° E. DEV: +002°.
- d) VAR: 004° E. DEV: -002°.

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25. What weather conditions may be expected during conditionally unstable conditions?

- a) Layered clouds up to high levels, prolonged rain or snow
- b) Shallow cumulus clouds with base at medium levels
- c) Sky clear of clouds, sunshine, low winds
- d) Towering cumulus, isolated showers of rain or thunderstorms

26. What frontal line divides subtropical air from polar cold air, in particular across Central Europe?

- a) Occlusion
- b) Cold front
- c) Polar front
- d) Warm front

27. What is the meaning of a flashing red light signal at a controlled aerodrome directed to an aircraft in flight?

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

28. The occurrence of a vertigo is most likely when moving the head...

- a) During a straight horizontal flight.
- b) During a turn.
- c) During a descent.
- d) During a climb.

29. What is the unit for voltage?

- a) Ampere
- b) Watt
- c) Ohm
- d) Volt

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

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

31. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 030° to a heading of 180°. At approximately which indicated magnetic heading should the turn be terminated?

- a) 360°
- b) 150°.
- c) 210°.
- d) 180°.

32. What does the abbreviation "QTE" stand for?

- a) Magnetic bearing to the station
- b) Magnetic bearing from the station
- c) True bearing from the station
- d) True bearing to the station

33. What must be considered if the alternator fails in a helicopter?

- a) All instruments and warning systems will fail
- b) No change as long as the battery provides enough power
- c) The engine runs roughly and is prone to knocking
- d) Only high power consumers will failing

34. What is the reason for static dischargers on aircraft?

- a) To ensure grounding during refueling
- b) To discharge static charging during flight
- c) To eliminate electrical interferences during intensive radio traffic
- d) To improve the quality of radio transmission in high altitudes

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35. The airspeed indicator is unservicable. The airplane may only be operated...

- a) When the airspeed indicator is fully functional again.
- b) When a GPS with speed indication is used during flight.
- c) If no maintenance organisation is around
- d) If only airfield patterns are flown.

36. Point A on the Earth's surface lies exactly on the parallel of latitude of 47°50'27"N. Which point is exactly 240 NM north of A?

- a) 43°50'27"N
- b) 53°50'27"N
- c) 49°50'27"N
- d) 51°50'27"N

37. What needs to be observed in conjunction with overheated brakes?

- a) The affected brakes need to be cooled down with halon
- b) The affected tyres may burst in axial direction
- c) The affected tyres may burst in radial direction or direction of rotation
- d) The wheel fairing shall be taken off to increase the cooldown

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

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

39. In which way may an altimeter subscale which is set to an incorrect QNH lead to an incorrect altimeter reading?

- a) If the subscale is set to a lower than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- b) If the subscale is set to a higher than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- c) If the subscale is set to a lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended
- d) If the subscale is set to a higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended

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40. 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

41. What is the meaning of the abbreviation "VMC"?

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

42. What is the correct way of acknowledging the instruction "Next report PAH"?

- a) Positive
- b) Roger
- c) Report PAH
- d) Wilco

43. After an engine failure, the windmilling propeller...

- a) Generates neither thrust nor drag.
- b) Has a greater pitch in feathered position
- c) Generates drag rather than thrust.
- d) Improves the properties of the glide

44. What has to be done before entering a TMZ?

- a) Switch on the transponder and activate mode A and C or mode S
- b) Request a clearance before entering
- c) Switch on the transponder, activate mode A, and squawk "IDENT"
- d) File a flight plan before the flight

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45. What is the purpose of a ground adjustable trim tab?

- a) It is set on the ground to correct an out-of-trim condition arising from the mass and balance situation of an aircraft
- b) It is preset on the ground and further adjusted in flight to reduce the need to constantly re-trim the aircraft
- c) It is used to optimize the handling characteristics of an aircraft during ground operations
- d) It is a non-movable metal tab on a flight control which is adjusted on the ground to optimize the inflight characteristics of an aircraft

46. Which is the colour of runway edge lights?

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

47. When do you expect wind shear?

- a) During an inversion
- b) In calm wind in cold weather
- c) During a summer day with calm winds
- d) When passing a warm front

48. Under what conditions may class D airspace be entered with a radio failure?

- a) Approval has been granted before
- b) There are other aircraft in the aerodrome circuit
- c) It is the aerodrome of departure
- d) It is the destination aerodrome

49. Given the following data: Take-Off fuel = 200 lbs Alternate fuel = 40 lbs Final reserve fuel = 30 lbs After 25 minutes the remaining fuel is 120 lbs. Assuming that fuel flow will remain unchanged, the remaining time to the destination should not exceed:

- a) 37.5 min
- b) 20.0 min
- c) 15.6 min
- d) 59.4 min

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50. The load factor "n" describes the relationship between...

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

51. Which statement is correct with regard to the short-term memory?

- a) It can store 10 (± 5) items for 30 to 60 seconds
- b) It can store 7 (± 2) items for 10 to 20 seconds
- c) It can store 3 (± 1) items for 5 to 10 seconds
- d) It can store 5 (± 2) items for 1 to 2 minutes

52. What pressure pattern can be observed when a cold front is passing?

- a) Continually decreasing pressure
- b) Shortly decreasing, thereafter increasing pressure
- c) Continually increasing pressure
- d) Constant pressure pattern

53. 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

54. A vertical speed indicator measures the difference between...

- a) Instantaneous total pressure and previous total pressure.
- b) Total pressure and static pressure.
- c) Instantaneous static pressure and previous static pressure.
- d) Dynamic pressure and total pressure

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55. How can the pilot of an engine-driven aircraft minimise the noise emission during descent and approach?

- a) How can the pilot of an engine-driven aircraft minimise the noise emission during descent and approach?
- b) Descent and approach in landing configuration while maintaining a descent angle of 3°, direct approach whenever possible
- c) Low approach with minimum power setting, late configuration and steep approach, adherence to established arrival routes
- d) High approach with minimum power setting, late descent, late configuration, adherence to established arrival routes

56. 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

57. What does the abbreviation "FIR" stand for?

- a) Flight integrity receiver
- b) Flow information radar
- c) Flight information region
- d) Flow integrity required

58. Raise the nose to decrease airspeed

- a) During recovery the ailerons should be kept neutral
- b) Only very old aeroplanes have a risk of spinning
- c) During recovery the ailerons should be crossed
- d) During the spin the speed constantly increases

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

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

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60. Rotation around the vertical axis is called...

- a) Rolling
- b) Pitching
- c) Yawing
- d) Slipping

61. Under which circumstances is it more likely to accept higher risks?

- a) If there is not enough information available
- b) During check flights due to a high level of nervousness
- c) During flight planning when excellent weather is forecast
- d) Due to group-dynamic effects

62. What is the parallax error?

- a) Long-sightedness due to aging especially during night
- b) Wrong interpretation of instruments caused by the angle of vision
- c) Misperception of speed during taxiing
- d) A decoding error in communication between pilots

63. 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.

64. The primer is...

- a) An auxiliary pump in the fuel system to facilitate engine starting
- b) A mechanical switch in the cockpit to engage the turbocharger.
- c) A valve in the fuel control system for automatic mixture regulation.
- d) A nozzle in the Venturi tube of a carburettor for atomising the fuel

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65. The red marking at the end of the yellow arc (5) indicates which airspeed? See figure (PFP-008) (1,00 P.) Siehe Anlage 8

- a) VNO: Maximum speed for normal operations
- b) VFE: Maximum flap extended speed
- c) VS1: Stall speed with flaps up
- d) VNE: Never-exceed speed

66. The end of the green arc (4) indicates which airspeed? See figure (PFP-008) (1,00 P.) Siehe Anlage 8

- a) VNO: Maximum speed for normal operations
- b) VNE: Never-exceed speed
- c) VFE: Maximum flap extended speed
- d) VS1: Stall speed with flaps up

67. 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

68. Which of the following states the working principle of an airspeed indicator?

- a) Total air pressure is measured and compared against static air pressure.
- b) Total air pressure is measured by the static ports and converted into a speed indication by the airspeed indicator
- c) Dynamic air pressure is measured by the Pitot tube and converted into a speed indication by the airspeed indicator
- d) Static air pressure is measured and compared against a vacuum

69. 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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70. What is the correct abbreviation of the call sign D-EAZF?

- a) DEA
- b) AZF
- c) DZF
- d) DEF

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Schema Risposte

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

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