

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. At which altitude is the atmospheric pressure approximately half the MSL value (1013 hPa)?

- a) 18000 ft
- b) 5000 ft
- c) 10000 ft
- d) 22000 ft

02. 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

03. 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

04. Which of the following landing areas is most suitable for an off-field landing?

- a) A lake with an undisturbed surface
- b) A light brown field with short crops
- c) A meadow without livestock
- d) A field with ripe waving crops

05. Given: QTE: 229° VAR: 10° W The QDM equals...

- a) 039°
- b) 059°
- c) 239°
- d) 049°

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06. What is the correct way of acknowledging "You are now entering airspace Delta"?

- a) Entering
- b) Roger
- c) Wilco
- d) Airspace Delta

07. Non-directional beacons (NDBs) transmit within which frequency band?

- a) Very low frequency (VLF) and low frequency (LF)
- b) Low frequency (LF) and medium frequency (MF)
- c) High frequency (HF)
- d) Very high frequency (VHF)

08. 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

09. Which transponder code indicates a radio failure?

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

10. Which of the following options is NOT a sufficient reason to fly below the required minimum height?

- a) Take-off or landing at an aerodrome
- b) An approach without landing at an aerodrome
- c) Bad weather conditions in the vicinity of an aerodrome
- d) The drop of towed objects at an aerodrome

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11. What structural item provides lateral stability to an airplane?

- a) Differential aileron deflection
- b) Wing dihedral
- c) Vertical tail
- d) Elevator

12. The speed V_y is defined as...

- a) Best speed of climb.
- b) Best angle of climb.
- c) Best distance of climb.
- d) Best distance of climb.

13. Given the following information, what is the true altitude? (rounded to the nearest 50 ft) QNH: 983 hPa Altitude: FL 85 Outside Air Temperature: ISA - 10°

- a) 7900 ft
- b) 9400 ft
- c) 7300 ft
- d) 7600 ft

14. 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

15. 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

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16. Clouds in high layers are referred to as...

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

17. 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

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

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

19. A pilot can contact FIS (flight information service)...

- a) Via telephone.
- b) Via internet.
- c) By a personal visit.
- d) Via radio communication.

20. What is a cause for the dip error on the direct-reading compass?

- a) Deviation in the cockpit
- b) Acceleration of the airplane
- c) Inclination of earth's magnetic field lines
- d) Temperature variations

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21. The change in pitch at a propeller blade from the root to the tip ensures...

- a) That the most thrust is produced at the blade tip
- b) That the most thrust is produced at the blade root
- c) A nearly constant load by a constant effective angle of attack over the entire length of the blade.
- d) The largest possible angle of attack at the blade tip

22. The term QDR means...

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

23. With only a slight crosswind, what is the danger at take-off after the departure of a heavy aeroplane?

- a) Wake turbulence on or near the runway
- b) Wake turbulence is amplified and distorted.
- c) Wake turbulence rotate faster and higher.
- d) Wake turbulence twisting transverse to the runway

24. 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

25. 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.

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26. The VDF range depends on...

- a) The aircraft's speed.
- b) The condition of the ionosphere.
- c) The range of the ground / surface wave.
- d) The aircraft's altitude.

27. Which part of the cycle of a four-stroke Otto engine can be seen in the attachment? See figure (AGK-007) (1,00 P.) Siehe Anlage 5

- a) Second stroke - compression
- b) Fourth stroke - exhaust
- c) First stroke - induction
- d) Third stroke - power

28. Which part of the cycle of a four-stroke Otto engine can be seen in the attachment? See figure (AGK-008) (1,00 P.) Siehe Anlage 6

- a) Second stroke - compression
- b) Third stroke - power
- c) Fourth stroke - exhaust
- d) First stroke - induction

29. 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

30. 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

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31. 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

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. 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

34. Regularity messages are messages...

- a) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- b) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.
- c) Sent by an aircraft operating agency or an aircraft of immediate concern to an aircraft in flight
- d) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation

35. 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.

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36. What is the percentage of oxygen in the atmosphere at 6000 ft?

- a) 21 %
- b) 12 %
- c) 78 %
- d) 18.9 %

37. Which of the following options does NOT stimulate motion sickness (disorientation)?

- a) Head movements during turns
- b) Flying under the influence of alcohol
- c) Non-accelerated straight and level flight
- d) Turbulence in level flight

38. What has to be considered when taking off in a ground inversion?

- a) Climb should be performed with the lowest possible speed and maximum power
- b) Due to low temperatures close to the ground, icing has to be expected
- c) During climb, a sudden decrease in speed and climb performance has to be expected
- d) During the climb, a sudden increase in speed and climb performance has to be expected

39. Which phenomenon may be expected at point 2 of the microburst? See figure (OPR-001) (1,00 P.) Siehe Anlage 1

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

40. 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

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41. In what case is the pilot allowed to abbreviate the call sign of his aircraft?

- a) After the ground station has used the abbreviation
- b) Within controlled airspace
- c) If there is little traffic in the traffic circuit
- d) After passing the first reporting point

42. 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

43. Which of the following messages has the highest priority?

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

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

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

45. What is the meaning of the abbreviation "ARC"?

- a) Airworthiness Recurring Control
- b) Airspace Rulemaking Committee
- c) Airspace Restriction Criteria
- d) Airworthiness Review Certificate

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46. 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

47. The bank in a two-minute turn (rate one turn) depends on the...

- a) Weight
- b) Wind
- c) Load factor.
- d) TAS

48. What is the purpose of the signal square at an aerodrome?

- a) It contains special symbols to indicate the conditions at the aerodrome visually to over-flying aircraft
- b) It is an illuminated area on which search and rescue and fire fighting vehicles are placed
- c) Aircraft taxi to this square to get light signals for taxi and take-off clearance
- d) It is a specially marked area to pick up or drop towing objects

49. Which of the following factors could cause an erroneous airspeed indication?

- a) A circuit breaker was pulled
- b) The earth wire is still attached
- c) The boost pressure line is defective
- d) The aircraft is covered with adhesive foils

50. What is the required distance to climb from FL 65 to FL 95 under the following conditions: Aircraft mass: 3000 lb. OAT in FL 65: -5° C OAT in FL 95: -15° C See annex (PFP-023) (1,00 P.) Siehe Anlage 14

- a) 6 NM
- b) 3 NM
- c) 16 NM
- d) 10 NM

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51. What is the major task of a carburettor?

- a) To pump fuel from the tanks into the cylinder
- b) To control the aircraft's speed through the throttle valve
- c) To provide additional fuel to cool the engine
- d) To produce an ignitable air/fuel mixture

52. What cloud type can typically be observed across widespread high pressure areas during summer?

- a) Overcast low stratus
- b) Scattered Cu clouds
- c) Overcast Ns clouds
- d) Squall lines and thunderstorms

53. Which abbreviation is used for the term "obstacle"?

- a) OBTC
- b) OBST
- c) OST
- d) OBS

54. Which climb speed may be used to optimize the rate of climb (e.g. to reach a desired altitude within minimum time)?

- a) V_y , the best angle of climb speed
- b) V_y , the best rate of climb speed
- c) V_x , the best rate of climb speed
- d) V_x , the best angle of climb speed

55. Baggage and cargo must be properly stowed and fastened, otherwise a shift of the cargo may cause...

- a) Continuous attitudes which can be corrected by the pilot using the flight controls.
- b) Structural damage, angle of attack stability, velocity stability
- c) Uncontrollable attitudes, structural damage, risk of injuries.
- d) Calculable instability if the C.G. is shifting by less than 10 %.

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56. Which statement about the airflow around an aerofoil is correct if the angle of attack decreases?

- a) The center of pressure moves aft
- b) The stagnation point remains constant
- c) The stagnation point moves down
- d) The center of pressure moves forward

57. The term "center of gravity" is defined as...

- a) The heaviest point on an aeroplane.
- b) Half the distance between the neutral point and the datum line.
- c) Another designation for the neutral point
- d) The point at which the total mass of the aeroplane is considered to act.

58. What does the abbreviation "H24" stand for?

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

59. It is possible that the surface wind speed at an airport is reduced due to friction. When a surface area with a minor tailwind condition is left during the initial climb, the pilot might expect...

- a) An increase in airspeed and rate of climb due to decreasing tailwind
- b) A decrease in airspeed and climb performance due to decreasing tailwind
- c) An increase in airspeed and rate of climb due to increasing tailwind.
- d) A decrease in airspeed and rate of climb due to increasing tailwind.

60. 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

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

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

62. 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.

63. What extinguishing agent is the least suitable for an aircraft fire?

- a) Powder
- b) Halon
- c) Water
- d) Foam

64. 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

65. The term QTE means...

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

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66. 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

67. Wake turbulence is particularly strong...

- a) When flying at high speeds
- b) When flying at high altitudes
- c) When flying at low speeds
- d) When flying at low altitudes

68. Two aeroplanes are flying on crossing tracks. Which one has to divert?

- a) The aircraft which flies from left to right has the right of priority
- b) Both have to divert to the right
- c) The aircraft which flies from right to left has the right of priority
- d) Both have to divert to the left

69. 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.

70. Using primary ground radar, the direction of the aeroplane in relation to the antenna is determined by...

- a) The pulse pair interval
- b) The orientation of the antenna.
- c) The frequency shift of the received pulse
- d) Time measurement.

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Schema Risposte

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

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