

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. The angle of descent is defined as...

- a) The ratio between the change in height and the horizontal distance travelled within the same time, expressed in percent [%]
- b) The angle between a horizontal plane and the actual flight path, expressed in degrees [°].
- c) The ratio between the change in height and the horizontal distance distance travelled within the same time, expressed in degrees [°].
- d) The angle between a horizontal plane and the actual flight path, expressed in percent [%].

02. When air masses meet each other head on, how is this referred to and what air movements will follow?

- a) Convergence resulting in sinking air
- b) Divergence resulting in sinking air
- c) Convergence resulting in air being lifted
- d) Divergence resulting in air being lifted

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

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

04. Wings level after a longer period of turning can lead to the impression of...

- a) Starting a descent.
- b) Starting a climb.
- c) Steady turning in the same direction as before
- d) Turning into the opposite direction

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05. 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

06. The term "aerodrome elevation" is defined as...

- a) The highest point of the landing area.
- b) The lowest point of the landing area.
- c) The highest point of the apron.
- d) The average value of the height of the manoeuvring area

07. 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

08. Differential aileron deflection is used to...

- a) Keep the adverse yaw low
- b) Avoid a stall at low angles of attack
- c) Increase the rate of descent
- d) Reduce wake turbulence.

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

- a) TH: 172°. DEV: +002°
- b) TH: 172°. DEV: -002°
- c) TH: 194°. DEV: -002°.
- d) TH: 194°. DEV: +002°.

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10. In what different ways can a risk be handled appropriately?

- a) Extrude, avoid, palliate, transfer
- b) Ignore, accept, transfer, extrude
- c) Avoid, reduce, transfer, accept
- d) Avoid, ignore, palliate, reduce

11. What weather conditions can be expected during "Foehn" on the windward side of a mountain range?

- a) Dissipating clouds with unusual warming, accompanied by strong, gusty winds
- b) Scattered cumulus clouds with showers and thunderstorms
- c) Layered clouds, mountains obscured, poor visibility, moderate or heavy rain
- d) Calm wind and forming of high stratus clouds (high fog)

12. Given: QDM: 248° VAR: 10° W The QTE is...

- a) 238°.
- b) 078°
- c) 058°.
- d) 258°.

13. 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

14. The directional information "12 o'clock" is correctly transmitted as...

- a) One two.
- b) One two o'clock
- c) One two hundred.
- d) Twelve o'clock.

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15. What wind is reportet as 225/15 ?

- a) North-east wind with 15 kt
- b) South-west wind with 15 km/h
- c) North-east wind with 15 km/h
- d) South-west wind with 15 kt

16. 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

17. 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

18. What phrase is used by a pilot if a transmission is to be answered with "yes"?

- a) Roger
- b) Yes
- c) Affirm
- d) Affirmative

19. Given the following data for a VFR flight: Take-off fuel: 180 kg including reserve fuel, which is 30% of take off fuel. After half of the distance the remaining fuel is 100 kg. Assume that cruise conditions will remain unchanged. Determine the remaining fuel at the destination:

- a) 80 kg
- b) 40 kg
- c) 10 kg
- d) 20 kg

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20. After a precautionary landing the brakes and wheels are very hot. In which way should the pilot approach them?

- a) From the right or left side
- b) At an angle of 45°
- c) From the front or back side
- d) From the front, right or left side

21. What does the dynamic pressure depend directly on?

- a) Air pressure and air temperature
- b) Air density and airflow speed squared
- c) Air density and lift coefficient
- d) Lift- and drag coefficient

22. 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

23. What process causes latent heat being released into the upper troposphere?

- a) Descending air across widespread areas
- b) Stabilisation of inflowing air masses
- c) Cloud forming due to condensation
- d) Evaporation over widespread water areas

24. 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.

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25. How does the pilot prepare for a VFR flight over a large distance of water, when it is unlikely that land can be reached in case of an engine failure?

- a) File a flight plan including the exact way-points
- b) Be prepared to fly with transponder only
- c) Carry life vests or a life raft for all occupants.
- d) Maintain continuous radio contact with ATC.

26. A Pre-Flight Information Bulletin (PIB) is a presentation of current...

- a) ICAO information of operational significance prepared after the flight
- b) AIP information of operational significance prepared prior to flight.
- c) AIC information of operational significance prepared after the flight.
- d) NOTAM information of operational significance prepared prior to flight.

27. How are the flight controls on a small single-engine piston aircraft normally controlled and actuated?

- a) Power-assisted through hydraulic pumps or electric motors
- b) Hydraulically through hydraulic pumps and actuators
- c) Manually through rods and control cables
- d) Electrically through fly-by-wire

28. How can wind speed and wind direction be derived from surface weather charts?

- a) By alignment and distance of isobaric lines
- b) By alignment and distance of hypsometric lines
- c) By alignment of lines of warm- and cold fronts.
- d) By annotations from the text part of the chart

29. Wake turbulence is particularly strong...

- a) At a high aeroplane weight.
- b) When flying with high thrust.
- c) When flying with low thrust.
- d) At a low aeroplane weight.

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30. 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

31. 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

32. What is the difference in time when the sun moves 10° of longitude?

- a) 0:30 h
- b) 0:04 h
- c) 0:40 h
- d) 1:00 h

33. 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.

34. Exceeding the maximum allowed aircraft mass is...

- a) Not permissible and essentially dangerous
- b) Only relevant if the excess is more than 10 %
- c) Compensated by the pilot's control inputs
- d) Exceptionally permissible to avoid delays.

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35. What is the function of the static rudder balance?

- a) To trim the controls almost without any force
- b) To increase the control stick forces
- c) To limit the control stick forces
- d) To prevent control surface flutter

36. Which method is appropriate to approach an unprepared landing field?

- a) Flat direct approach to ensure visual ground contact
- b) Steep approach to keep the noise level low
- c) Fast approach, performance check, and landing within a quick stop
- d) Terrain investigation to determine approach points and landing

37. 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

38. 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

39. 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

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40. Which parts of an aircraft mainly affect the generation of induced drag?

- a) The front part of the fuselage.
- b) The wing tips
- c) The lower part of the gear.
- d) The outer part of the ailerons

41. Which statement regarding the "constant-speed propeller" is correct?

- a) The propeller keeps the airspeed constant
- b) The pitch of the propeller rises with higher speeds
- c) The RPM decreases with lower speeds
- d) The set RPM is kept constant by the motor power (MAP)

42. The total weight of an aeroplane is acting vertically through the...

- a) Stagnation point.
- b) Neutral point.
- c) Center of pressure.
- d) Center of gravity.

43. What does a readability of 5 indicate?

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

44. Temperatures will be given by meteorological aviation services in Europe in which unit?

- a) Degrees Centigrade ($^{\circ}$ C)
- b) Kelvin
- c) Gpdam
- d) Degrees Fahrenheit

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45. 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

46. The term "flight time" is defined as...

- a) The period from the start of the take-off run to the final touchdown when landing
- b) The total time from the first aircraft movement until the moment it finally comes to rest at the end of the flight.
- c) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown. ? the total time f
- d) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown. ? the total time f

47. The transponder code in case of hi-jacking is...

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

48. What is the mass of a "cube of air" with the edges 1 m long, at MSL according ISA?

- a) 1,225 kg
- b) 0,01225 kg
- c) 0,1225 kg
- d) 12,25 kg

49. What does a cloud coverage of "BKN" mean in a METAR weather report?

- a) 3 to 4 eighths
- b) 8 eighths
- c) 5 to 7 eighths
- d) 1 to 2 eighths

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50. Which transponder code has to be set unrequested during an emergency?

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

51. Which are the properties of a Lambert conformal chart?

- a) Great circles are depicted as straight lines and the chart is an equal-area projection
- b) The chart is conformal and an equal-area projection
- c) The chart is conformal and nearly true to scale
- d) Rhumb lines are depicted as straight lines and the chart is conformal

52. The drag coefficient...

- a) Increases with increasing airspeed.
- b) Is proportional to the lift coefficient.
- c) Cannot be lower than a non-negative, minimal value.
- d) May range from zero to an infinite positive value

53. The shoreline effect is greatest with radio wave propagation...

- a) At a right angle to the coast; aircraft below 6000 ft
- b) At an acute angle to the coast; aircraft above 6000 ft.
- c) At an acute angle to the coast; aircraft below 6000 ft.
- d) At a right angle to the coast; aircraft above 6000 ft.

54. What leads to a decreased stall speed V_s (IAS)?

- a) Lower altitude
- b) Lower density
- c) Higher load factor
- d) Decreasing weight

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55. 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.

56. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL110?

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

57. Which of the following qualities are influenced by stress? 1. Attention 2. Concentration 3. Responsiveness 4. Memory

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

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

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

59. What is the approximate speed of electromagnetic wave propagation?

- a) 123000 m/s
- b) 300000 km/s
- c) 123000 km/s
- d) 300000 m/s

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60. 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

61. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at 5000 ft MSL?

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

62. What is the meaning of a flashing red light signal at a controlled aerodrome directed to an aircraft on ground?

- a) Cleared for take-off
- b) Cleared to taxi
- c) Immediately taxi clear of runway in use
- d) Return to starting point

63. 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.

64. A Grey-out is the result of...

- a) Hypoxia
- b) Tiredness
- c) Positive g-forces.
- d) Hyperventilation

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65. Which of the items on the attached checklist are related to the direct reading compass? See annex (NAV-004) (1,00 P.) Siehe Anlage 2

- a) "Turning Instruments" only
- b) "Gyro" and "Circuit Breaker"
- c) "Gyro" and "Turning Instruments"
- d) "Turning Instruments" and "Circuit Breaker"

66. What is the meaning of the abbreviation "AIREP"?

- a) Aircraft report
- b) Aeronautical instrument requirement report
- c) Automatic identification report
- d) Aeronautical information report

67. What is the great circle distance between two points A and B on the equator when the difference between the two associated meridians is exactly one degree of longitude?

- a) 60 NM
- b) 400 NM
- c) 120 NM
- d) 216 NM

68. 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

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

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70. The term 'True Course' (TC) is defined as...

- a) The angle between magnetic north and the course line.
- b) The direction from an arbitrary point on Earth to the geographic North Pole.
- c) The angle between true north and the course line
- d) The direction from an arbitrary point on Earth to the magnetic north pole

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Schema Risposte

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

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