

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. 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

02. The position of the the center of pressure at a positively shaped profile...

- a) Moves to the leading edge while the angle of attack becomes smaller.
- b) Is located at approximately 25% of the chord, measured from the leading edge
- c) Moves to the trailing edge while the angle of attack becomes smaller.
- d) Does not move since it is independent of the angle of attack.

03. 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

04. What does a cloud coverage of "SCT" mean in a METAR weather report?

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

05. 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

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06. 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.

07. 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

08. A landing conducted in response to circumstances forcing the aircraft to land is a / an...

- a) Precautionary landing.
- b) Urgent landing.
- c) Emergency landing
- d) Field or out landing

09. 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

10. What is the period of validity of a private pilot license (PPL)?

- a) Unlimited
- b) 24 months
- c) 48 months
- d) 60 months

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11. The static pressure of gases work...

- a) Only vertical to the flow direction.
- b) Only in the direction of the total pressure.
- c) In all directions.
- d) Only in flow direction

12. 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

13. How do spread and relative humidity change with increasing temperature?

- a) Spread increases, relative humidity decreases
- b) Spread remains constant, relative humidity decreases
- c) Spread increases, relative humidity increases
- d) Spread remains constant, relative humidity increases

14. What does the abbreviation HSI stand for?

- a) Horizontal Situation Indicator
- b) Hybernating System Indication
- c) Horizontal Slip Indicator
- d) Horrifying Steep Inclination

15. The center of gravity has to be located...

- a) Between the front and the rear C.G. limit.
- b) Behind the rear C.G. limit.
- c) In front of the front C.G. limit
- d) Right of the lateral C. G. limit.

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

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

17. 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

18. The formation of medium to large precipitation particles requires...

- a) A high cloud base.
- b) Strong wind.
- c) An inversion layer.
- d) Strong updrafts.

19. Which of the stated surfaces will reduce the wind speed most due to ground friction?

- a) Flat land, deserted land, no vegetation
- b) Oceanic areas
- c) Mountainous areas, vegetation cover
- d) Flat land, lots of vegetation cover

20. 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.

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21. Which phenomenon may be expected at point 3 of the microburst? See figure (OPR-001) (1,00 P.) Siehe Anlage 1

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

22. Given: True course from A to B: 250°. Ground distance: 210 NM. TAS: 130 kt. Headwind component: 15 kt. Estimated time of departure (ETD): 0915 UTC. The estimated time of arrival (ETA) is...

- a) 1115 UTC
- b) 1105 UTC.
- c) 1005 UTC
- d) 1052 UTC

23. A gyro which is rotating in space responds to forces being applied to it by an evasive movement...

- a) At an angle of 45° to the force being applied.
- b) In a northern direction.
- c) At an angle of 90° to the force being applied.
- d) At an angle of 180° to the force being applied

24. The sun moves 10° of longitude. What is the difference in time?

- a) 0.4 h
- b) 1 h
- c) 0.33 h
- d) 0.66 h

25. What wind conditions can be expected in areas showing large distances between isobars?

- a) Formation of local wind systems with strong prevailing westerly winds
- b) Strong prevailing easterly winds with rapid backing
- c) Strong prevailing westerly winds with rapid veering
- d) Variable winds, formation of local wind systems

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26. What is the principle of a Fowler flap?

- a) A profile-like flap is extended from the trailing edge of the wing
- b) A flap from the rear bottom side of the wing is folded down
- c) At high angles of attack a part of the leading edge lifts
- d) At high angles of attack a part of the leading edge lifts

27. A frequency of 119.500 MHz is correctly transmitted as...

- a) One one niner tousand decimal five zero.
- b) One one niner decimal five
- c) One one niner decimal five zero.
- d) One one niner decimal five zero zero.

28. A precautionary landing is a landing...

- a) Conducted without power from the engine.
- b) Conducted in response to circumstances forcing the aircraft to land.
- c) Conducted in an attempt to sustain flight safety.
- d) Conducted with the flaps retracted.

29. What happens to the true airspeed at a constant indicated airspeed during a climb?

- a) It decreases
- b) It increases
- c) It remains constant below 5000 ft
- d) It remains constant above 5000 ft

30. During an approach the aeroplane experiences a windshear with a decreasing tailwind. 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 higher, IAS increases
- c) Path is lower, IAS decreases
- d) Path is lower, IAS increases

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31. What weather phenomena have to be expected around an upper-level trough?

- a) Calm wind, forming of shallow cumulus clouds
- b) Calm weather, formation of lifted fog layers
- c) Formation of high stratus clouds, ground-covering cloud bases
- d) Development of showers and thunderstorms (Cb)

32. What temperatures are most dangerous with respect to airframe icing?

- a) $+5^{\circ}$ to -10° C
- b) 0° to -12° C
- c) -20° to -40° C
- d) $+20^{\circ}$ to -5° C

33. 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

34. What danger is most imminent when an aircraft is hit by lightning?

- a) Rapid cabin depressurization and smoke in the cabin
- b) Surface overheat and damage to exposed aircraft parts
- c) Explosion of electrical equipment in the cockpit
- d) Disturbed radio communication, static noise signals

35. Distress messages are messages...

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

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36. Calculated take-off mass = 1082 kg, calculated CG = 0.254 m, fuel burn = 55 l on station 0.40 m. Where is the CG situated after the landing?

- a) 24.6 cm
- b) 25.2 cm
- c) 25.4 cm
- d) 24.8 cm

37. 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

38. The transponder code in case of a radio communication failure is...

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

39. 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

40. 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

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41. What is the meaning of the abbreviation "TRA"? (

- a) Temporary Reserved Airspace
- b) Temporary Radar Routing Area
- c) Transponder Area
- d) Terminal Area

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

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

43. What pattern can be found at the stagnation point?

- a) The boundary layer starts separating on the upper surface of the profile
- b) The laminar boundary layer changes into a turbulent boundary layer
- c) All aerodynamic forces can be considered as attacking at this single point
- d) Streamlines are divided into airflow above and below the profile

44. What should be observed when taxiing behind a commercial airliner?

- a) To avoid wake turbulence, a minimum distance of 700 m should be maintained
- b) To avoid the jet blast, a minimum distance of 600 m should be maintained
- c) To avoid wake turbulence, a minimum distance of 300 m should be maintained
- d) To avoid the jet blast, a minimum distance of 200 m should be maintained

45. 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

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46. 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

47. Regarding the type of cloud, precipitation is classified as...

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

48. 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.

49. 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

50. Which of the following are an aircraft's secondary flight controls?

- a) Elevator, rudder, aileron
- b) All movable parts on the aircraft which aid in controlling the aircraft
- c) Elevator, rudder, aileron, trim tabs, high-lift wing devices, power controls
- d) Wing flaps, leading edge devices, spoilers or speedbrakes, trim systems

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51. Which validity does the "Certificate of Airworthiness" have?

- a) 6 months
- b) 12 years
- c) Unlimited
- d) 12 months

52. A wind shear is...

- a) A slow increase of the wind speed in altitudes above 13000 ft.
- b) A wind speed change of more than 15 kt.
- c) A vertical or horizontal change of wind speed and wind direction
- d) A meteorological downslope wind phenomenon in the alps

53. The ratio of span and mean chord length is referred to as...

- a) Trapezium shape.
- b) Tapering
- c) Aspect ratio.
- d) Wing sweep.

54. The measurement of altitude is based on the change of the...

- a) Dynamic pressure.
- b) Differential pressure.
- c) Static pressure.
- d) Total pressure.

55. The position of the center of gravity (including fuel) equals... See figure(PFP-053e) (1,00 P.) Siehe Anlage 2

- a) 37.1 cm
- b) 0.401 m
- c) 37.3 cm
- d) 0.403 m.

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

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

57. A transponder with the ability to send the current pressure level is a...

- a) Pressure-decoder.
- b) Mode C or S transponder
- c) Mode A transponder.
- d) Transponder approved for airspace "B".

58. According to ICAO Anex 14, which is the colour marking of a runway?

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

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

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

60. During an approach the aeroplane experiences a windshear with an increasing 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

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

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

62. 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

63. Fading in LF/MF frequency range occurs mainly...

- a) In the late afternoon.
- b) At midday.
- c) During the night.
- d) In the daytime.

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

65. Which abbreviation is used for the term "abeam"?

- a) ABM
- b) ABB
- c) ABA
- d) ABE

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66. An altitude of 4500 ft is transmitted as...

- a) Four thousand five hundred.
- b) Four five thousand.
- c) Four thousand five zero zero.
- d) Four five zero zero.

67. What information is broadcasted on a VOLMET frequency?

- a) Navigational information
- b) NOTAMS
- c) Current information
- d) Meteorological information

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

- a) Altimeter setting
- b) Traffic information
- c) Taxi instructions
- d) Heading

69. Which approximate, geometrical form describes the shape of the Earth best for navigation systems?

- a) Sphere of ecliptical shape
- b) Ellipsoid
- c) Perfect sphere
- d) Flat plate

70. Where is the aircraft located in relation to the VOR? See annex (NAV-022) (1,00 P.) Siehe Anlage 7

- a) Northeast
- b) Southeast
- c) Southwest
- d) Northwest

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Schema Risposte

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

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