

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. 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

02. 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

03. 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.

04. What is the correct course of action when experiencing a radio failure in class D airspace?

- a) The flight has to be continued above 5000 feet complying with VFR flight rules or the airspace has to be left by the shortest route
- b) The flight has to be continued according to the last clearance complying with VFR rules or the airspace has to be left by the shortest route
- c) The flight has to be continued above 5000 feet complying with VFR flight rules or the airspace has to be left using a standard routing
- d) The flight has to be continued according to the last clearance complying with VFR flight rules or the airspace has to be left using a standard routing

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05. The highest absorption of humidity in fuel can be observed in which situation?

- a) During parking on wet grass areas
- b) During parking on cold aprons
- c) Almost empty tanks
- d) Almost full tanks

06. What clouds and weather can typically be observed during the passage of a cold front?

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

07. 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

08. What is the required flight time for a distance of 236 NM with a ground speed of 134 kt?

- a) 1:34 h
- b) 0:46 h
- c) 1:46 h
- d) 0:34 h

09. 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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10. A pilot wants to take off on runway 36, the reported wind is 240 degrees, 12 knots. What is the value of the wind components acting on the aircraft on take-off and landing?

- a) Crosswind from the right 10.4 kt. Tailwind 6 kt.
- b) Crosswind from the left 10.4 kt. Tailwind 6 kt.
- c) Crosswind from the left 6 kt. Tailwind 10.4 kt.
- d) Crosswind from the right 6 kt. Headwind 10.4 kt.

11. The "swiss cheese model" can be used to explain the...

- a) Error chain.
- b) Procedure for an emergency landing.
- c) Optimal problem solution.
- d) State of readiness of a pilot.

12. Which direction corresponds to 'compass north' (CN)?

- a) The most northerly part of the magnetic compass in the aircraft, where the reading takes place
- b) The direction from an arbitrary point on Earth to the geographical North Pole
- c) The angle between the aircraft heading and magnetic north
- d) The direction to which the direct reading compass aligns due to earth's and aircraft's magnetic fields

13. Which processes result in decreasing air density?

- a) Decreasing temperature, increasing pressure
- b) Increasing temperature, decreasing pressure
- c) Increasing temperature, increasing pressure
- d) Decreasing temperature, decreasing pressure

14. 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

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15. What is the effect of pulling the control yoke or stick backwards?

- a) The aircraft's tail will produce an increased downward force, causing the aircraft's nose to drop
- b) The aircraft's tail will produce an decreased upward force, causing the aircraft's nose to drop
- c) The aircraft's tail will produce an increased downward force, causing the aircraft's nose to rise
- d) The aircraft's tail will produce an increased upward force, causing the aircraft's nose to rise

16. 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

17. For what approximate time period can the short-time memory store information?

- a) 35 to 50 seconds
- b) 30 to 40 seconds
- c) 3 to 7 seconds
- d) 10 to 20 seconds

18. What does the reported runway condition "WET" mean?

- a) Some water patches are visible
- b) The surface of the runway is soaked, but there are no significant patches of standing water
- c) A large part of the surface is flooded
- d) The runway is clear of water, ice, and snow

19. What is meant by "inversion layer"?

- a) An atmospheric layer where temperature decreases with increasing height
- b) A boundary area between two other layers within the atmosphere
- c) An atmospheric layer with constant temperature with increasing height
- d) An atmospheric layer where temperature increases with increasing height

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20. 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

21. 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.

22. 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

23. 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

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

- a) Land at this airport and proceed to apron
- b) Clear the taxiway / runway
- c) Return to starting point
- d) Stop

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25. In which way does the position of the center of pressure move at a positively shaped profile with increasing angle of attack?

- a) It moves backward until reaching the critical angle of attack
- b) It moves forward first, then backward
- c) It moves forward until reaching the critical angle of attack
- d) It moves to the wing tips

26. 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

27. 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

28. What weather conditions can be expected in high pressure areas during summer?

- a) Changing weather with passing of frontal lines
- b) Squall lines and thunderstorms
- c) Calm winds and widespread areas with high fog
- d) Calm weather and cloud dissipation, few high Cu

29. Wie beeinflusst die Lufttemperatur die Leistung eines Kolbenmotors?

- a) Geringere Temperatur entspricht höherer Luftdichte, dies führt zu geringerer Motorleistung
- b) Höhere Temperatur entspricht geringerer Luftdichte, dies führt zu geringerer Motorleistung
- c) Höhere Temperatur entspricht höherer Luftdichte, dies führt zu höherer Motorleistung
- d) Geringere Temperatur entspricht geringerer Luftdichte, dies führt zu höherer Motorleistung

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30. Which of the stated wind phenomena will increase in speed since its path is narrowed by mountains?

- a) Bora
- b) Mistral
- c) Scirocco
- d) Passat

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

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

32. 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"

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

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

34. 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

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35. 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

36. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +11°C. The QNH altitude is 6500 ft. The true altitude equals...

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

37. In case of a stall it is important to...

- a) Increase the bank angle and reduce the speed
- b) Increase the angle of attack and increase the speed.
- c) Decrease the angle of attack and increase the speed
- d) Increase the angle of attack and reduce the speed.

38. Which statement is correct with regard to the polar axis of the Earth?

- a) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is perpendicular to the plane of the equator
- b) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is at an angle of 23.5° to the plane of the equator
- c) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is perpendicular to the plane of the equator
- d) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is at an angle of 66.5° to the plane of the equator

39. What clouds and weather may result from an humid and instable air mass, that is pushed against a chain of mountains by the predominant wind and forced to rise?

- a) Embedded CB with thunderstorms and showers of hail and/or rain.
- b) Thin Altostratus and Cirrostratus clouds with light and steady precipitation.
- c) Overcast low stratus (high fog) with no precipitation.
- d) Smooth, unstructured NS cloud with light drizzle or snow (during winter)

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40. What is the percentage of nitrogen in the atmosphere?

- a) 1 %
- b) 21 %
- c) 78 %
- d) 0.1 %

41. 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

42. What structural item provides directional stability to an airplane?

- a) Differential aileron deflection
- b) Large vertical tail
- c) Wing dihedral
- d) Large elevator

43. What is the correct term for an involuntary and stereotypical reaction of an organism to the stimulation of a receptor?

- a) Reduction
- b) Virulence
- c) Coherence
- d) Reflex

44. 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

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45. What weather phenomenon designated by "2" has to be expected on the lee side during "Foehn" conditions? See figure (MET-001). Siehe Anlage 1

- a) Altocumulus Castellanus
- b) Nimbostratus
- c) Cumulonimbus
- d) Altocumulus lenticularis

46. 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

47. Electronic devices on board of an aeroplane have influence on the...

- a) Turn coordinator
- b) Airspeed indicator.
- c) Artificial horizon.
- d) Direct reading compass

48. What change of wind direction can be expected during the passage of a polar front low in Central Europe?

- a) Backing wind during passage of the warm front, veering wind during passage of the cold front
- b) Backing wind during passage of the warm front, backing wind during passage of the cold front
- c) Veering wind during passage of the warm front, veering wind during passage of the cold front
- d) Veering wind during passage of the warm front, backing wind during passage of the cold front

49. 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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50. 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

51. 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°

52. 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.

53. What does the abbreviation "HX" stand for?

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

54. What type of fog emerges if humid and almost saturated air, is forced to rise upslope of hills or shallow mountains by the prevailing wind?

- a) Orographic fog
- b) Steaming fog
- c) Radiation fog
- d) Advection fog

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55. In flight, a little smoke emerges from behind the instrument panel. An electrical 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) Turn off the master switch
- d) Use the fire extinguisher

56. Calibrated airspeed (CAS) equals...

- a) Equivalent airspeed (EAS) corrected for altitude.
- b) Indicated airspeed (IAS) corrected for instrument and position error
- c) Ground speed (GS) corrected for instrument and position error
- d) True airspeed (TAS) corrected for wind.

57. Where does the condensation water converge in the tank?

- a) It floats on the fuel
- b) It floats on the fuel
- c) At the lowest position
- d) It is mixed with the fuel

58. Given the following conditions, the take-off distance equals... Outside air temperature: -20° C Pressure Altitude: 5000 ft Aeroplane mass: 750 kg Headwind: 10 kt

- a) 450 m.
- b) 380 m
- c) 410 m
- d) 310 m.

59. What mass equals 102 litres of Avgas 100LL?

- a) 142 lbs
- b) 74 lbs
- c) 142 kg
- d) 74 kg

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60. (For this question, please use annex PFP-063) According ICAO, what symbol indicates a general spot elevation? (2,00 P.) Siehe Anlage 24

- a) B
- b) C
- c) A
- d) D

61. The speed VFE is defined as...

- a) Stalling or minimum steady flight speed with the flaps retracted.
- b) Stalling or minimum steady flight speed with the flaps retracted.
- c) Stalling or minimum steady flight speed with the flaps extended.
- d) Maximum landing gear extended speed

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

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

63. 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

64. 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

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65. The aircraft is on radial... See annex (NAV-024) (1,00 P.) Siehe Anlage 8

- a) 066°.
- b) 234°.
- c) 060°.
- d) 246°.

66. 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

67. What process results in the formation of "advection fog"?

- a) Cold, moist air is being moved across warm ground areas
- b) Warm, moist air is moved across cold ground areas
- c) Cold, moist air mixes with warm, moist air
- d) Prolonged radiation during nights clear of clouds

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

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

69. What is shown on the printed sign? See figure (ALW-020) Siehe Anlage 2

- a) 2500 m in the stated direction till reaching the parking area
- b) From this intersection the available runway length is 2500 m in the stated direction
- c) The complete length of the runway in the stated direction is 2500 m
- d) 2500 m in the stated direction till reaching the departure point of the runway

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70. What information can be obtained from satellite images?

- a) Temperature and dew point of environmental air
- b) Turbulence and icing
- c) Flight visibility, ground visibility, and ground contact
- d) Overview of cloud covers and front lines

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Schema Risposte

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

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