

Simulazione di Esame

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



QuizVds.it

NOME ALLIEVO:

DATA & ORA:

01. What is the meaning of "risky shift"?

- a) Crossing of rudder and ailerons on short final
- b) The tendency to accept higher risks in groups
- c) Spontaneous change of landing direction when the runway has an upslope
- d) Seat adjustment in flight

02. 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

03. Carbon monoxide poisoning can be caused by...

- a) Little sleep.
- b) Alcohol
- c) Smoking.
- d) Unhealthy food.

04. An emergency landing is a landing...

- a) Conducted without power from the engine.
- b) Conducted in an attempt to keep up safety regarding an aircraft and its occupants.
- c) Conducted with the flaps retracted.
- d) Conducted in response to circumstances forcing the aircraft to land

Simulazione di Esame

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



QuizVds.it

05. The pressure which is measured at a ground station and reduced to mean sea level (MSL) by means of the actual atmospheric conditions is called...

- a) QNH
- b) QNE
- c) QFE
- d) QFF

06. 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

07. 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

08. Provided that no other procedure is described in the Aircraft Operating Handbook, after increasing the engine power in a go-around, the flaps may...

- a) Not be operated up to the minimum safe altitude
- b) Be retracted to a middle position
- c) Be fully retracted without any delay.
- d) Remain fully extended until reaching the traffic pattern

09. What pressure pattern can be observed at a lift-generating wing profile at positive angle of attack?

- a) Low pressure is created above, higher pressure below the profile
- b) High pressure is created above, lower pressure below the profile
- c) Pressure above remains unchanged, higher pressure is created below the profile
- d) Pressure below remains unchanged, lower pressure is created above the profile

Simulazione di Esame

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



QuizVds.it

10. 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

11. For a take-off from runway 22 and a reported wind of 250°/10 kt, the longitudinal wind component equals...

- a) 9 kt tailwind
- b) 5 kt tailwind.
- c) 9 kt headwind.
- d) 9 kt headwind.

12. What is the distance between the two parallels of longitude 150°E and 151°E along the equator?

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

13. Which danger exists during engine start?

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

14. When preparing to carry out the weighing procedure on an aircraft, which of the following is required?

- a) Drain all engine tank oil
- b) Remove service equipment
- c) Drain all useable fuel
- d) Remove the batteries

Simulazione di Esame

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



QuizVds.it

15. 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.

16. When transmitter and receiver are moving towards each other...

- a) The frequency varies, but the wavelength remains constant
- b) The perceived frequency equals the transmitted frequency
- c) The perceived frequency increases
- d) The perceived frequency decreases.

17. 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

18. What radio navigation aid can be received with the attached aerial? See figure (NAV-017) (1,00 P.) Siehe Anlage 5

- a) VOR
- b) DME
- c) NDB
- d) VDF

19. The term "static pressure" is defined as pressure...

- a) Inside the airplane cabin.
- b) Of undisturbed airflow.
- c) Resulting from orderly flow of air particles.
- d) Sensed by the pitot tube.

Simulazione di Esame

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



QuizVds.it

20. 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

21. The correct transponder code for emergencies is...

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

22. 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.

23. 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"

24. 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

Simulazione di Esame

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



QuizVds.it

25. Which Q-code is used for the true bearing from the station?

- a) QDR
- b) QUJ
- c) QDM
- d) QTE

26. What does the abbreviaton "FIR" stand for?

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

27. 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.

28. Which of the following symptoms may indicate hypoxia?

- a) Joint pain in knees and feet
- b) Muscle cramps in the upper body area
- c) Blue discolouration of lips and fingernails
- d) Blue marks all over the body

29. What is the required distance to climb to flight level (FL) 75 after a departure from an airfield which is located at a pressure altitude of 3000 ft with an initial mass of 3000 lbs? OAT at airfield: 25° C OAT in FL 75: 0° C See annex (PFP-023) (1,00 P.) Siehe Anlage 14

- a) 10 NM
- b) 6 NM
- c) 4 NM
- d) 7 NM

Simulazione di Esame

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



QuizVds.it

30. The majority of aviation accidents are caused by...

- a) Technical failure
- b) Meteorological influences.
- c) Geographical influences.
- d) Human failure.

31. 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

32. 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

33. Which type of ice forms by large, supercooled droplets hitting the front surfaces of an aircraft?

- a) Hoar frost
- b) Clear ice
- c) Rime ice
- d) Mixed ice

34. 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

Simulazione di Esame

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



QuizVds.it

35. What could be a reason for changing the runway indicators at aerodromes (e.g. from runway 06 to runway 07)?

- a) The magnetic deviation of the runway location has changed
- b) The magnetic variation of the runway location has changed
- c) The direction of the approach path has changed
- d) The true direction of the runway alignment has changed

36. 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

37. 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.

38. What condition may prevent the formation of "radiation fog"?

- a) Overcast cloud cover
- b) Calm wind
- c) Low spread
- d) Clear night, no clouds

Simulazione di Esame

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



QuizVds.it

39. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?

- a) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS
- b) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection is $\pm 10^\circ$.
- c) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection is ± 10 NM.
- d) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS.

40. The center of pressure is the theoretical point of origin of...

- a) Only the resulting total drag.
- b) All aerodynamic forces of the profile
- c) Gravity forces of the profile
- d) Gravity and aerodynamic forces

41. What has to be considered with regard to the center of gravity position?

- a) The center of gravity's position can only be determined during flight.
- b) Only correct loading can assure a correct and safe center of gravity position
- c) By moving the elevator trim tab, the center of gravity can be shifted into a correct position
- d) By moving the aileron trim tab, the center of gravity can be shifted into a correct position.

42. What chart shows areas of precipitation?

- a) GAFOR
- b) Wind chart
- c) Satellite picture
- d) Radar picture

43. What does a cloud coverage of "FEW" mean in a METAR weather report?

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

Simulazione di Esame

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



QuizVds.it

44. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance A = Arousal / Stress Siehe Anlage 1

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

45. Which statement about a rhumb line is correct?

- a) A rhumb line cuts each meridian at the same angle.
- b) The center of a complete cycle of a rhumb line is always the Earth's center.
- c) The shortest track between two points along the Earth's surface follows a rhumb line
- d) A rhumb line is a great circle intersecting the the equator with 45° angle.

46. What is the function of the red blood cells (erythrocytes)?

- a) Oxygen transport
- b) Blood coagulation
- c) Immune defense
- d) Blood sugar regulation

47. The distance between the center of gravity and the datum is called...

- a) Span width.
- b) Balance arm.
- c) Lever
- d) Torque

48. What danger does standing water on the runway pose to aircraft?

- a) Decreased rolling resistance during take-off
- b) An increase in lift
- c) Increased rolling resistance during take-off
- d) A decrease in lift

Simulazione di Esame

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



QuizVds.it

49. 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

50. Which are the properties of a Mercator chart?

- a) The scale is constant, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- b) The scales increases with latitude, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- c) The scales increases with latitude, great circles are depicted as straight lines, rhumb lines are depicted as curved lines
- d) The scale is constant, great circles are depicted as straight lines, rhumb lines are depicted as curved lines

51. Which Q-code is used for the true bearing to the station?

- a) QDR
- b) QDM
- c) QTE
- d) QUJ

52. During a flight, a flight plan can be filed at the...

- a) Flight Information Service (FIS).
- b) Search and Rescue Service (SAR).
- c) Next airport operator en-route.
- d) Aeronautical Information Service (AIS).

53. What does the octane rating or fuel grade describe?

- a) Anti-knock rating
- b) Flame front speed
- c) Ignition timing
- d) Combustion temperature

Simulazione di Esame

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



QuizVds.it

54. (For this questions use attachment or CAP697 SEP1 Fig. 2.2 Table 2.2.3) For planning a VFR flight, the following data are given: Flight time with planning "overhead-overhead" = 2h 42min Pressure Altitude = 7.500 ft Temperature = ISA Power setting = 2300 RPM Taxi Fuel = 2 USG Additional time for climb = 8 min, Additional time for approach and landing = 10 min The reserve fuel has to be 30% of trip fuel. Determine the minimum block fuel: (2,00 P.) Siehe Anlage 21

- a) 51.8 USG
- b) 37.7 USG
- c) 46.4 USG
- d) 48.4 USG

55. During final approach, the glider pilot realizes a very bumpy surface on a selected off field landing site. What technique may be recommended for landing?

- a) Touch down with minimum speed, compensate different ground levels with power lever
- b) Approach with increased speed, push elevator upon first ground contact
- c) Touch down with minimum speed, keep elevator pulled until full stop
- d) Approach with increased speed, avoid using wheel brakes

56. Which constructive feature has the purpose to reduce steering forces?

- a) T-tail
- b) Vortex generators
- c) Differential aileron deflection
- d) Aerodynamic rudder balance

57. An inversion layer close to the ground can be caused by...

- a) Ground cooling during the night.
- b) Large-scale lifting of air.
- c) Intensifying and gusting winds
- d) Thickening of clouds in medium layers.

58. What does a readability of 2 indicate?

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

Simulazione di Esame

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



QuizVds.it

59. 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.

60. 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

61. 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

62. 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

63. A VOR radial corresponds to the...

- a) QTE
- b) QUJ
- c) QDR
- d) QDM

Simulazione di Esame

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



QuizVds.it

64. Which optical illusion might be caused by a runway with an upslope during the approach?

- a) The pilot has the feeling that the approach is too fast and reduces the speed below the normal approach speed
- b) The pilot has the feeling that the approach is too high and therefore descends below the regular glide slope
- c) The pilot has the feeling that the approach is too slow and speeds up above the normal approach speed
- d) The pilot has the feeling that the approach is too low and therefore approaches the runway above the regular glide slope

65. How does a balance tab move in relation to the flight control surface that it is coupled with?

- a) In the opposite direction
- b) At an angle of 90°
- c) At an angle of 45°
- d) In the same direction

66. Under which conditions "back side weather" ("Rückseitenwetter") can be expected?

- a) Before passing of an occlusion
- b) During Foehn at the lee side
- c) After passing of a warm front
- d) After passing of a cold front

67. During a descent at idle power with constant speed, the propeller lever is moved backwards. How do the propeller pitch and sink rate change?

- a) Propeller pitch is increased, sink rate is increased
- b) Propeller pitch is increased, sink rate is decreased
- c) Propeller pitch is decreased, sink rate is increased
- d) Propeller pitch is decreased, sink rate is decreased

68. 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

Simulazione di Esame

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



QuizVds.it

69. 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

70. Given the following conditions, the TAS equals... Outside air temperature: -2° C Pressure altitude: 8000 ft Power: 75 % See annex (PFP-014) (1,00 P.) Siehe Anlage 13

- a) 104 kt
- b) 100 kt.
- c) 95 kt.
- d) 110 kt

Simulazione di Esame

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



QuizVds.it

Schema Risposte

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

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