

# Exam simulation

PPL(H) - Private Pilot License, 120 questions on 120 minutes!



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STUDENT NAME:

DATE AND TIME:

## 01. Which processes result in decreasing air density?

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

## 02. What is the purpose of the vertical stabilizer?

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- a) Adjustment of longitudinal stability
- b) Compensation of tail rotor stability
- c) Improvement of directional stability
- d) Reduction of manoeuvre stability

## 03. In case of an emergency ditching, the life vests have to be inflated...

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- a) Before disembarking the aircraft.
- b) After disembarking the aircraft at a safe distance of about 10 m.
- c) During disembarking the aircraft.
- d) After disembarking the aircraft.

## 04. "Foehn" conditions usually develop with...

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- a) Instability, widespread air blown against a mountain ridge.
- b) Stability, widespread air blown against a mountain ridge.
- c) Instability, high pressure area with calm wind.
- d) Stability, high pressure area with calm wind.

## 05. What needs to be observed in conjunction with flying above mountainous terrain?

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- a) Unexpected changes in weather and turbulence.
- b) Unexpected overspeed faults and vibrations
- c) Carburettor icing in piston engines
- d) Icing conditions over the predicted freezing level

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

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

**07. The induced airflow on the rotor of a helicopter in level flight has the greatest value at the...**

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- a) Rear rotor area.
- b) Advancing rotor blade.
- c) Retreating rotor blade.
- d) Front rotor area.

**08. Which answer contains every state of water found in the atmosphere?**

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- a) Liquid
- b) Liquid and solid
- c) Gaseous and liquid
- d) Liquid, solid, and gaseous

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

---

- a) Cleared for take-off
- b) Cleared to taxi
- c) Return to starting point
- d) Clear the taxiway / runway

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

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

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

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

**12. What is the difference in latitude between A (12°53'30"N) and B (07°34'30"S)?**

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- a) 05°19'00"
- b) 20,28°
- c) 05,19°
- d) 20°28'00"

**13. What weather is likely to be experienced during "Foehn" in the Bavarian area close to the alps?**

---

- a) Cold, humid downhill wind on the lee side of the alps, flat pressure pattern
- b) High pressure area overhead Biskaya and low pressure area in Eastern Europe
- c) Nimbostratus cloud in the northern alps, rotor clouds at the windward side, warm and dry wind
- d) Nimbostratus cloud in the southern alps, rotor clouds at the lee side, warm and dry wind

**14. Why does a stall begin on the retreating rotor blade at high cruise speeds?**

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- a) The airflow reaches subsonic speed and causes an increase of the induced drag
- b) The small pitch angle and a relatively low peripheral speed cause a small effective angle of attack
- c) The large pitch angle and relatively low peripheral speed cause a large effective angle of attack
- d) The airflow reaches supersonic speed and causes an increase of the parasite drag

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

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

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

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

## 17. What is the lowest possible VFR flight level if a true course of 181° is selected and a variation of 3° east exists?

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- a) FL 065
- b) FL 060
- c) FL 055
- d) FL 050

## 18. A precautionary landing is a landing...

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

## 19. Given: True course: 165°. TAS: 90 kt. Wind: 130°/20 kt. Distance: 153 NM. The true heading equals...

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- a) 165°.
- b) 126°.
- c) 152°.
- d) 158°.

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

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

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## 21. The correlator (for pitch compensation)...

---

- a) Overlays periodic and collective control inputs from the pilot.
- b) Opens the throttle when the collective is raised.
- c) Increases rotor RPM when the carburettor heat is turned on.
- d) Disables the engine via a spring-loaded resistance.

## 22. Which items should a passenger briefing in case of an imminent emergency landing include?

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- a) Blood type of the other aircraft occupants, location of the first-aid kit
- b) Nature of the emergency, intentions, safety position, evacuation routes, actions after landing
- c) How to work the aircraft radio, emergency transponder squawk, telephone number of the competent search and rescue (SAR) center
- d) How to read an emergency checklist, how to cut the engine, telephone number of the home airport

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

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

## 24. Wake turbulence is particularly strong...

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

## 25. How can the belts of a belt clutch be tightened?

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- a) Approximation of two rotating plates
- b) Increase of drive shaft distance
- c) Increase of engine RPM
- d) Extension of a pneumatic cylinder

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

---

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

**27. During an autorotation the airspeed is limited by...**

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- a) The displacement of the stall regions in the inner area of the rotor blade.
- b) The interference drag during low rates of descent.
- c) The landing gear during the touchdown.
- d) The drift of the driving forces on the returning blade.

**28. What is the minimum age to obtain a private pilot license?**

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- a) 18 years
- b) 17 years
- c) 21 years
- d) 16 years

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

---

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

**30. Which abbreviation is used for the term "abeam"?**

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

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**31. 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?**

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- 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  $\pm 10$  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.

**32. The virtual rotation axis of a rotor is...**

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- a) Perpendicular to the hub plane.
- b) Parallel with the main rotor shaft.
- c) Perpendicular to the tip path plane.
- d) Perpendicular to the plane which contains the swash plate.

**33. Assume two arbitrary points A and B on the same parallel of latitude, but not on the equator. Point A is located on  $010^\circ\text{E}$  and point B on  $020^\circ\text{E}$ . The rhumb line distance between A and B is always...**

---

- a) More than 300 NM.
- b) More than 600 NM.
- c) Less than 300 NM.
- d) Less than 600 NM.

**34. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of  $360^\circ$  to a heading of  $270^\circ$ . At approximately which indication of the magnetic compass should the turn be terminated?**

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- a)  $270^\circ$
- b)  $360^\circ$
- c)  $300^\circ$
- d)  $240^\circ$

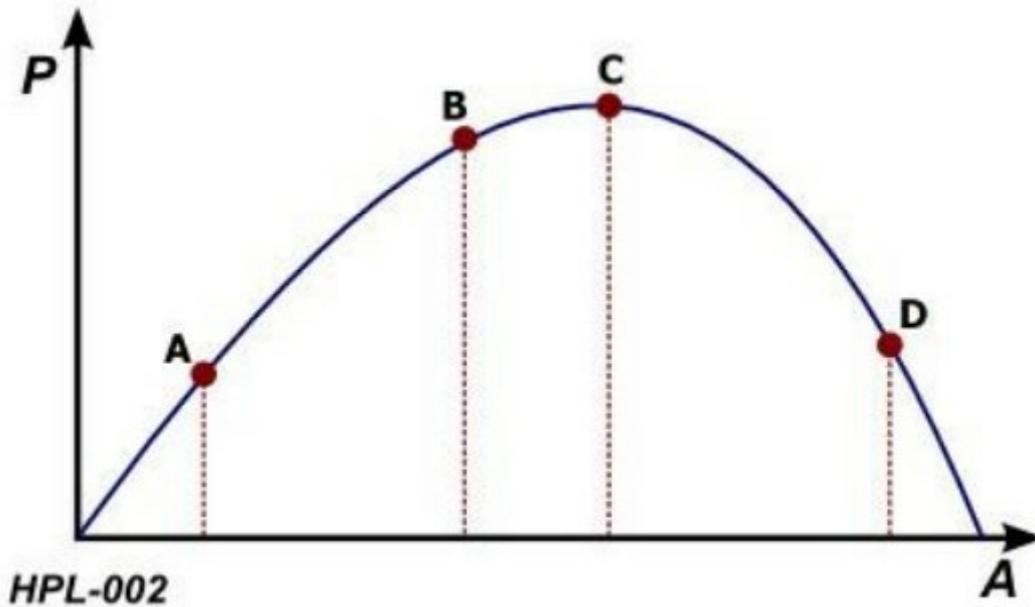
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35. The ideal level of arousal is at which point in the diagram? See figure (HPL- 002) P = Performance A = Arousal / Stress Siehe Anlage 1



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

36. Which phrase does a pilot use when he / she wants to check the readability of his / her transmission?

- a) Request readability
- b) What is the communication like?
- c) You read me five
- d) How do you read?

37. The drive system of the autogyro's main rotor is based on...

- a) The speed of the airflow.
- b) A fan in the cabin.
- c) An engine in the cabin.
- d) An engine at the rotor blade tip

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**38. What behavior does a helicopter without stabilization systems show after external disturbances in a hover, without a corrective action?**

---

- a) Statically stable and dynamically instable
- b) Statically stable and dynamically stable
- c) Statically indifferent and dynamically instable
- d) Statically stable and dynamically indifferent

**39. The term "flight time" is defined as...**

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- a) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown.
- b) The total time from the first take-off until the last landing in conjunction with one or more consecutive flights.
- c) The period from the start of the take-off run to the final touchdown when landing.
- d) The total time from the first aircraft movement until the moment it finally comes to rest at the end of the flight.

**40. Given: WCA: -012°; TH: 125°; MC: 139°; DEV: 002°E What are: TC, MH and CH?**

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- a) TC: 137°. MH: 139°. CH: 125°.
- b) TC: 137°. MH: 127°. CH: 125°.
- c) TC: 113°. MH: 139°. CH: 129°.
- d) TC: 113°. MH: 127°. CH: 129°.

**41. Exceeding the maximum allowed aircraft mass is...**

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- a) Only relevant if the excess is more than 10 %.
- b) Exceptionally permissible to avoid delays.
- c) Exceptionally permissible to avoid delays.
- d) Not permissible and essentially dangerous.

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

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

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

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- a) 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
- b) 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
- c) 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
- 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

## 44. 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 high and therefore descends below the regular glide slope
- b) The pilot has the feeling that the approach is too low and therefore approaches the runway above 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 fast and reduces the speed below the normal approach speed

## 45. Which are the advantages of sandwich structures?

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- a) Low weight, high stiffness, high stability, and high strength
- b) Good formability and high temperature durability
- c) High temperature durability and low weight
- d) High strength and good formability

## 46. The distance between two airports is 220 NM. On an aeronautical navigation chart the pilot measures 40.7 cm for this distance. The chart scale is...

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- a) 1 : 2000000.
- b) 1 : 250000.
- c) 1 : 1000000.
- d) 1 : 500000.

## 47. With other factors remaining constant, decreasing temperature results in...

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- a) Increasing spread and decreasing relative humidity.
- b) Decreasing spread and increasing relative humidity.
- c) Increasing spread and increasing relative humidity.
- d) Decreasing spread and decreasing relative humidity.

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

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

**49. Which energies serve to maintain the rotor rpm in an autorotation?**

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- a) Potential or kinetic energy
- b) Mechanical or chemical energy
- c) Rotational and linear energy
- d) Frictional and flow energy

**50. When do you expect wind shear?**

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- a) When passing a warm front
- b) During a summer day with calm winds
- c) During an inversion
- d) In calm wind in cold weather

**51. Which altitude marks the lower limit where the body is unable to completely compensate the effects of the low atmospheric pressure?**

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- a) 12000 feet
- b) 7000 feet
- c) 5000 feet
- d) 22000 feet

**52. The shoreline effect is greatest with radio wave propagation...**

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

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**53. In what situation is it appropriate to set the transponder code 7600?**

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- a) Emergency
- b) Hijacking
- c) Flight into clouds
- d) Loss of radio

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

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

**55. With regard to thunderstorms, strong up- and downdrafts appear during the...**

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- a) Initial stage.
- b) Mature stage.
- c) Dissipating stage.
- d) Thunderstorm stage.

**56. What causes the phase lag between the displacement and the flapping of a rotor blade?**

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- a) Rounding of the rotor blade tips
- b) Inertia, mass, and aerodynamic forces
- c) Friction in the rotor blade spindles
- d) Advance or retreat angle of 90°

**57. The on-board equipment of the secondary surveillance radar (SSR) is called...**

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- a) Transponder
- b) Interrogator.
- c) Decoder.
- d) Course indicator.

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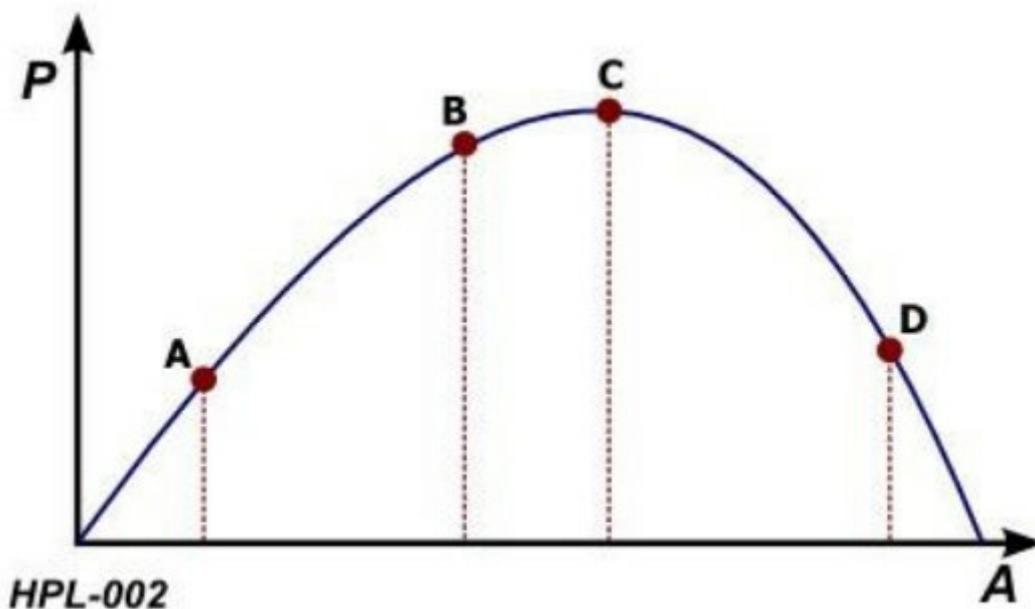


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58. Which light colour advises the pilot to the condition "corrective action may be required in the future"?

- a) Green
- b) Red
- c) Amber (orange)
- d) Blue

59. 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 A
- b) Point B
- c) Point D
- d) Point C

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

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

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## 61. The term "FATO" is defined as...

- a) A treaty between federal organizations.
- b) An area for final approach and take-off for helicopters.
- c) A noise abatement procedure for VFR traffic.
- d) A missed approach procedure for essential traffic.

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## 62. Which air traffic service is responsible for the safe conduct of flights?

- a) ATC (air traffic control)
- b) ALR (alerting service)
- c) FIS (flight information service)
- d) AIS (aeronautical information service)

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

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

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## 64. Which air traffic services can be expected within an FIR (flight information region)?

- a) AIS (aeronautical information service) SAR (search and rescue)
- b) ATC (air traffic control) FIS (flight information service)
- c) FIS (flight information service) ALR (alerting service)
- d) ATC (air traffic control) AIS (aeronautical information service)

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## 65. The center of gravity (CG) defines...

- a) The point on the longitudinal axis or its extension from which the centers of gravity of all masses are referenced.
- b) The point through which the force of gravity is said to act on a mass.
- c) The distance from the datum to the position of a mass.
- d) The product of mass and balance arm.

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

---

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

**67. To which privileges are you entitled by holding a private pilot license (PPL) with an endorsed type rating for helicopters?**

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- a) To conduct commercial flights when the helicopter is approved for not more than six seats and to work as a flight instructor in a commercial flight academy
- b) To conduct non-commercial flights with passengers, provided the pilot-in-command has carried out at least three take-offs and landings within the last 90 days
- c) To conduct non-commercial flights with passengers, provided the pilot-in-command has carried out at least five take-offs and landings within the last 120 days
- d) To conduct commercial flights when the helicopter is approved for not more than four seats and to work as a flight instructor in a commercial flight academy

**68. What information is NOT found on Low-Level Significant Weather Charts (LLSWC)?**

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- a) Information about icing conditions
- b) Information about turbulence areas
- c) Front lines and frontal displacements
- d) Radar echos of precipitation

**69. May an engine, which previously was on fire, be restarted?**

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- a) Yes, but only if the cause of the fire was a carburettor fire during engine start
- b) Yes, but only on the ground for the purpose of taxiing
- c) No, the risk of a reignition of the fire would be too high
- d) Yes, if the aircraft is flying at a safe altitude

**70. Smoke enters the cockpit during an engine fire. Which actions have to be taken immediately?**

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- a) Switching off the pitot and front window heating
- b) Switching off the master switch and the ignition
- c) Switching off the heating and the ventilating system
- d) Switching off the avionics and the cabin lighting

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**71. Which altitude is transmitted by the transponder in mode C?**

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- a) Radio altitude
- b) QFE altitude
- c) Pressure altitude
- d) QNH altitude

**72. The conversion factor from kilogram [kg] into pounds [lb] is...**

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- a)  $\text{Kg} / 2.205 = \text{lb}$ .
- b)  $\text{Kg} \times 2.205 = \text{lb}$ .
- c)  $\text{Kg} \times 0.454 = \text{lb}$ .
- d)  $\text{Kg} \times 2 = \text{lb}$ .

**73. Which conditions are likely for the formation of advection fog?**

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- a) Warm, humid air moves over a cold surface
- b) Cold, humid air moves over a warm ocean
- c) Warm, humid air cools during a cloudy night
- d) Humidity evaporates from warm, humid ground into cold air

**74. Given: TC: 179°; WCA: -12°; VAR: 004° E; DEV: +002° What are MH and MC?**

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- a) MH: 167°. MC: 161°.
- b) MH: 163°. MC: 175°.
- c) MH: 163°. MC: 161°.
- d) MH: 167°. MC: 175°.

**75. What wind is reported as 225/15 ?**

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

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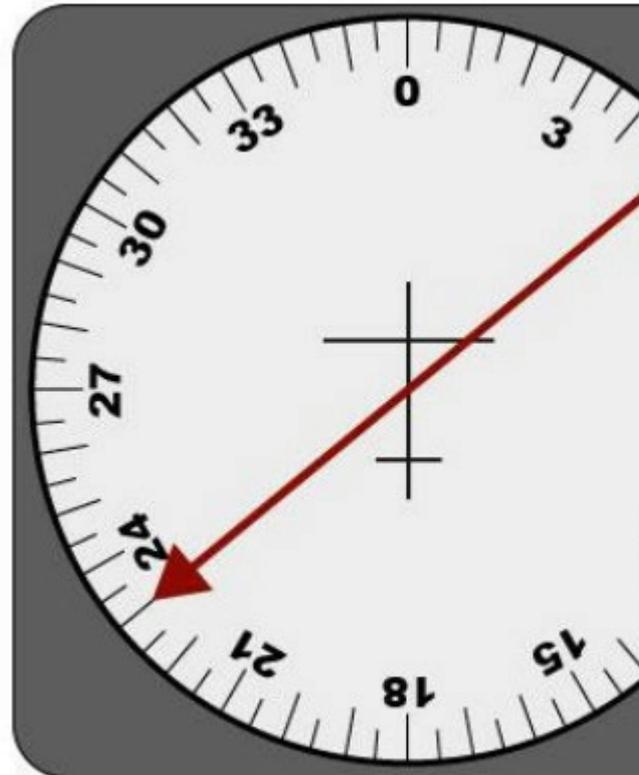


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76. The pilot wants to proceed directly to the beacon. The wind is calm. The pilot should follow a QDM of... See figure (N Siehe Anlage 4



NAV-019



- a) 230°.
- b) 200°.
- c) 080°.
- d) 260°.

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

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

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

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- a) 0° to -12° C
- b) +20° to -5° C
- c) +5° to -10° C
- d) -20° to -40° C

## 79. What needs to be observed if the carburettor heat is applied in a hover?

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- a) Gain of power
- b) Loss of power
- c) Reduction of pre-ignition
- d) Increase of rotor rpm

## 80. Distress messages contain...

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- a) Information concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance
- b) Information concerning urgent spare parts which are required for a continuation of flight and which have to be ordered in advance.
- c) Information concerning the apron personell and which imply an imminent danger to landing aircraft.
- d) Information concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.

## 81. The term "maximum elevation figure" (MEF) is defined as...

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- 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.

## 82. Two aircraft of the same type, same grossweight and same configuration fly at different airspeeds. Which aircraft will cause more severe wake turbulence?

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- a) The aircraft flying at lower altitude.
- b) The aircraft flying at slower speed.
- c) The aircraft flying at higher altitude.
- d) The aircraft flying at higher speed.

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**83. How much taxi fuel must be consumed before take-off to reduce the aircraft mass to the maximum take-off mass? Maximum ramp mass (MRM): 1150 kg Actual ramp mass: 1148 kg Maximum take-off mass (MTOM): 1145 kg**

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- a) 3 L
- b) 4 L
- c) 2 L
- d) 5 L

**84. In which way should a pilot confirm received light signals in flight?**

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- a) Rock the wings (in the daytime)
- b) Apply some changes of RPM
- c) Apply some fast pitch changes
- d) Apply some changes of the rudder

**85. What types of airflow can be observed around a rotor blade aerofoil?**

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- a) Laminar airflow on the entire upper surface
- b) Laminar airflow at the leading edge, turbulent airflow further back
- c) Turbulent airflow at the leading edge, laminar airflow further back
- d) Turbulent airflow on the entire upper surface

**86. What frontal line divides subtropical air from polar cold air, in particular across Central Europe?**

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- a) Polar front
- b) Occlusion
- c) Warm front
- d) Cold front

**87. The airframe of an accelerating helicopter continues to bend until the...**

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- a) Horizontal thrust component equals the drag.
- b) Thrust passes in front of the centre of gravity.
- c) Vertical thrust component equals the drag.
- d) Thrust passes behind the centre of gravity.

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

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

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**89. The term "datum" with regard to a mass and balance calculation defines...**

---

- a) The distance from the reference plane to the center of gravity of an aircraft.
- b) The point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- c) The point on the vertical axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- d) The point on the lateral axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.

---

**90. Two engine-driven aircraft are flying on crossing courses at the same altitude. Which one has to divert?**

---

- a) Both have to divert to the right
- b) The lighter one has to climb
- c) Both have to divert to the left
- d) The heavier one has to climb

---

**91. How can a wind shear encounter in flight be avoided?**

---

- a) Avoid take-off and landing during the passage of heavy showers or thunderstorms
- b) Avoid take-offs and landings in mountainous terrain and stay in flat country whenever possible
- c) Avoid thermally active areas, particularly during summer, or stay below these areas
- d) Avoid areas of precipitation, particularly during winter, and choose low flight altitudes

---

**92. With increasing altitude and unchanged mixture setting, the air/fuel mixture...**

---

- a) Becomes more lean.
- b) Becomes richer.
- c) Stays constant.
- d) Becomes liquid.

# Exam simulation

PPL(H) - Private Pilot License, 120 questions on 120 minutes!

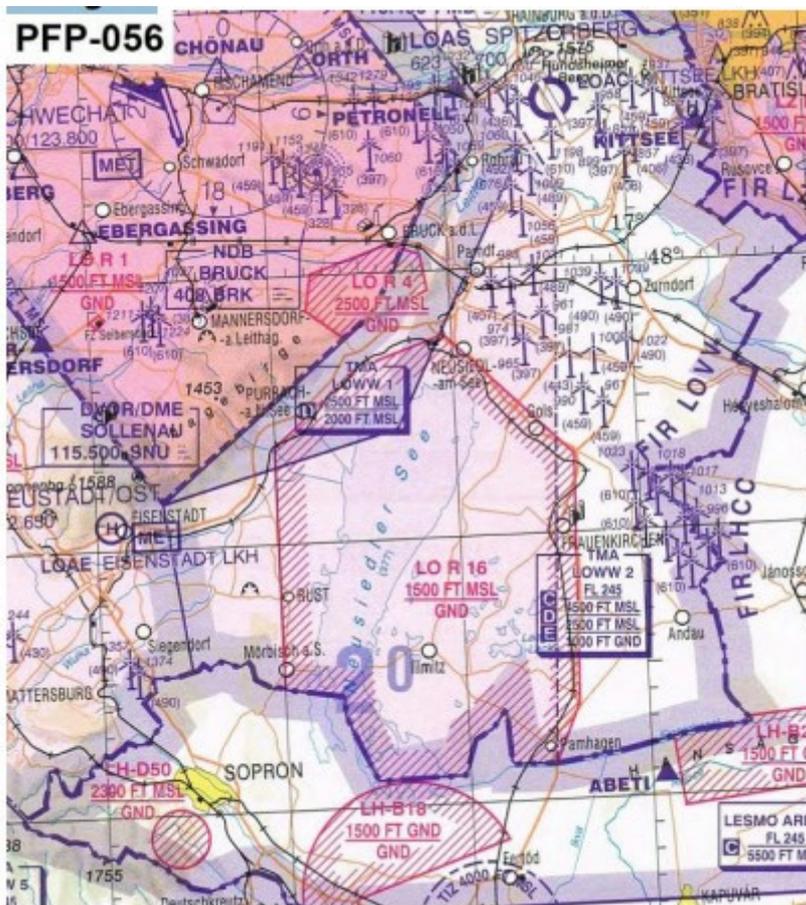


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93. What mass equals 102 litres of Avgas 100LL?

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

94. The upper limit of LO R 16 equals... See annex (PFP-056) Siehe Anlage 7



- a) 1 500 ft MSL.
- b) 1 500 m MSL.
- c) 1.500 ft GND.
- d) FL150.

# Exam simulation

PPL(H) - Private Pilot License, 120 questions on 120 minutes!



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**95. What is the percentage of nitrogen in the atmosphere?**

---

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

**96. What is a latent error?**

---

- a) An error which only has consequences after landing
- b) An error which has an immediate effect on the controls
- c) An error which is made by the pilot actively and consciously
- d) An error which remains undetected in the system for a long time

**97. With regard to global circulation within the atmosphere, where does polar cold air meet subtropical warm air?**

---

- a) At the polar front
- b) At the geographic poles
- c) At the subtropical high pressure belt
- d) At the equator

**98. What kind of drag is caused by a lift-producing aerofoil?**

---

- a) Parasite drag
- b) Frictional drag
- c) Interference drag
- d) Induced drag

**99. What weather development will result from convergence at ground level?**

---

- a) Ascending air and cloud dissipation
- b) Descending air and cloud dissipation
- c) Ascending air and cloud formation
- d) Descending air and cloud formation

# Exam simulation

PPL(H) - Private Pilot License, 120 questions on 120 minutes!



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**100. What weather conditions in Central Europe are typically found in high pressure areas during summer?**

---

- a) Large isobar spacing with strong prevailing westerly winds
- b) Small isobar spacing with strong prevailing northerly winds
- c) Large isobar spacing with calm winds, formation of local wind systems
- d) Small isobar spacing with calm winds, formation of local wind systems

**101. Which are the official basic units for horizontal distances used in aeronautical navigation and their abbreviations?**

---

- a) Feet (ft), inches (in)
- b) Yards (yd), meters (m)
- c) Nautical miles (NM), kilometers (km)
- d) Land miles (SM), sea miles (NM)

**102. What cloud sequence can typically be observed during the passage of a warm front?**

---

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

**103. Which of the following is NOT a risk factor for hypoxia?**

---

- a) Smoking
- b) Diving
- c) Menstruation
- d) Blood donation

**104. Given: QDR: 152° VAR: 5° W DEV: 5° E The QUJ equals...**

---

- a) 317°
- b) 327°
- c) 147°
- d) 332°

# Exam simulation

PPL(H) - Private Pilot License, 120 questions on 120 minutes!



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**105. The term "ceiling" is defined as the...**

---

- a) Altitude of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.
- b) Height of the base of the lowest layer of clouds covering more than half of the sky below 10000 ft.
- c) Height of the base of the highest layer of clouds covering more than half of the sky below 20000 ft
- d) Height of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.

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

---

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

**107. Which actions should be taken if the orientation is lost during helicopter flight operations?**

---

- a) Return to the departure aerodrome and reorientate from there
- b) Continue the flight in any direction until the navigation can be resumed
- c) Continue with planned heading to the next interception line and reorientate from there
- d) According the Warsaw convention orientation triangles must be flown

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

---

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

**109. What is the meaning of a flashing red light signal at a controlled aerodrome directed to an aircraft in flight?**

---

- a) Cleared to land
- b) Airport unsafe, do not land
- c) Give way to other aircraft and continue circling
- d) Return for landing, followed by steady green at the appropriate time

# Exam simulation

PPL(H) - Private Pilot License, 120 questions on 120 minutes!



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**110. What phrase is used by a pilot to inform the tower about a go-around?**

---

- a) Pulling up
- b) Going around
- c) Approach canceled
- d) No landing

**111. What is an appropriate reaction when a passenger during cruise flight suddenly feels uncomfortable?**

---

- a) Avoid conversation and choose a higher airspeed
- b) Switch on the heater blower and provide thermal blankets
- c) Give additional oxygen and avoid low load factors
- d) Adjust cabin temperature and prevent excessive bank

**112. What pressure pattern can be observed during the passage of a polar front low?**

---

- a) Falling pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- b) Rising pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- c) Rising pressure in front of the warm front, rising pressure within the warm sector, falling pressure behind the cold front
- d) Falling pressure in front of the warm front, constant pressure within the warm sector, falling pressure behind the cold front

**113. Measured pressure distribution in MSL and corresponding frontal systems are displayed by the...**

---

- a) Hypsometric chart
- b) Prognostic chart.
- c) Significant Weather Chart (SWC).
- d) Surface weather chart.

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

---

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

# Exam simulation

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**115. After lift-off, a much stronger than expected airspeed rise is experienced during the initial climb phase. What may be expected if the aeroplane entered a microburst?**

---

- a) A decreased climb rate and airspeed
- b) An increased climb rate and decreased airspeed
- c) A decreased climb rate and increased airspeed
- d) An increased climb rate and airspeed

**116. What difference in altitude is shown by an altimeter, if the reference pressure scale setting is changed from 1000 hPa to 1010 hPa?**

---

- a) Values depending on QNH
- b) Zero
- c) 80 m less than before
- d) 80 m more than before

**117. 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 master switch
- b) Turn off the heat
- c) Shut down the engine
- d) Use the fire extinguisher

**118. The correct transponder code for emergencies is...**

---

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

**119. Point A on the Earth's surface lies exactly on the parallel of latitude of 47°50'27"N. Which point is exactly 240 NM north of A?**

---

- a) 49°50'27"N
- b) 53°50'27"N
- c) 43°50'27"N
- d) 51°50'27'N'

# Exam simulation

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## 120. Which components do rotor blades made of synthetic material contain?

---

- a) Spar of lead and synthetic material, filling material and outer skin of synthetic material, erosion protection of stainless steel
- b) Spar of synthetic material, filling material and outer skin of synthetic material, erosion protection of aluminum
- c) Spar of aluminum and synthetic material, filling material and outer skin and erosion protection of synthetic material
- d) Spar of stainless steel, filling material and outer skin and erosion protection of synthetic material

# Exam simulation

PPL(H) - Private Pilot License, 120 questions on 120 minutes!



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## Response Scheme

Compare your answers with the following diagram and mark your score!

01: C	02: C	03: D	04: B
05: A	06: D	07: A	08: D
09: C	10: D	11: B	12: D
13: D	14: C	15: B	16: D
17: C	18: C	19: D	20: A
21: B	22: B	23: C	24: A
25: B	26: B	27: D	28: B
29: A	30: A	31: D	32: C
33: D	34: A	35: C	36: D
37: A	38: A	39: D	40: B
41: D	42: B	43: A	44: A
45: A	46: C	47: B	48: D
49: A	50: C	51: A	52: A
53: D	54: A	55: B	56: B
57: A	58: C	59: C	60: B
61: B	62: A	63: D	64: C
65: B	66: D	67: B	68: D
69: C	70: C	71: C	72: B
73: A	74: B	75: C	76: D
77: C	78: A	79: B	80: A
81: B	82: B	83: B	84: A

# Exam simulation

PPL(H) - Private Pilot License, 120 questions on 120 minutes!



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85: **B** \_\_\_\_\_

86: **A** \_\_\_\_\_

87: **A** \_\_\_\_\_

88: **C** \_\_\_\_\_

89: **B** \_\_\_\_\_

90: **A** \_\_\_\_\_

91: **A** \_\_\_\_\_

92: **B** \_\_\_\_\_

93: **D** \_\_\_\_\_

94: **A** \_\_\_\_\_

95: **A** \_\_\_\_\_

96: **D** \_\_\_\_\_

97: **A** \_\_\_\_\_

98: **D** \_\_\_\_\_

99: **C** \_\_\_\_\_

100: **C** \_\_\_\_\_

101: **C** \_\_\_\_\_

102: **C** \_\_\_\_\_

103: **B** \_\_\_\_\_

104: **B** \_\_\_\_\_

105: **D** \_\_\_\_\_

106: **A** \_\_\_\_\_

107: **C** \_\_\_\_\_

108: **A** \_\_\_\_\_

109: **B** \_\_\_\_\_

110: **B** \_\_\_\_\_

111: **D** \_\_\_\_\_

112: **A** \_\_\_\_\_

113: **D** \_\_\_\_\_

114: **D** \_\_\_\_\_

115: **A** \_\_\_\_\_

116: **D** \_\_\_\_\_

117: **B** \_\_\_\_\_

118: **D** \_\_\_\_\_

119: **D** \_\_\_\_\_

120: **A** \_\_\_\_\_

# Exam simulation

PPL(H) - Private Pilot License, 120 questions on 120 minutes!



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## Response form

Use this form to mark your answers

01: _____	02: _____	03: _____	04: _____
05: _____	06: _____	07: _____	08: _____
09: _____	10: _____	11: _____	12: _____
13: _____	14: _____	15: _____	16: _____
17: _____	18: _____	19: _____	20: _____
21: _____	22: _____	23: _____	24: _____
25: _____	26: _____	27: _____	28: _____
29: _____	30: _____	31: _____	32: _____
33: _____	34: _____	35: _____	36: _____
37: _____	38: _____	39: _____	40: _____
41: _____	42: _____	43: _____	44: _____
45: _____	46: _____	47: _____	48: _____
49: _____	50: _____	51: _____	52: _____
53: _____	54: _____	55: _____	56: _____
57: _____	58: _____	59: _____	60: _____
61: _____	62: _____	63: _____	64: _____
65: _____	66: _____	67: _____	68: _____
69: _____	70: _____	71: _____	72: _____
73: _____	74: _____	75: _____	76: _____
77: _____	78: _____	79: _____	80: _____
81: _____	82: _____	83: _____	84: _____

# Exam simulation

PPL(H) - Private Pilot License, 120 questions on 120 minutes!



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85: \_\_\_\_\_

86: \_\_\_\_\_

87: \_\_\_\_\_

88: \_\_\_\_\_

89: \_\_\_\_\_

90: \_\_\_\_\_

91: \_\_\_\_\_

92: \_\_\_\_\_

93: \_\_\_\_\_

94: \_\_\_\_\_

95: \_\_\_\_\_

96: \_\_\_\_\_

97: \_\_\_\_\_

98: \_\_\_\_\_

99: \_\_\_\_\_

100: \_\_\_\_\_

101: \_\_\_\_\_

102: \_\_\_\_\_

103: \_\_\_\_\_

104: \_\_\_\_\_

105: \_\_\_\_\_

106: \_\_\_\_\_

107: \_\_\_\_\_

108: \_\_\_\_\_

109: \_\_\_\_\_

110: \_\_\_\_\_

111: \_\_\_\_\_

112: \_\_\_\_\_

113: \_\_\_\_\_

114: \_\_\_\_\_

115: \_\_\_\_\_

116: \_\_\_\_\_

117: \_\_\_\_\_

118: \_\_\_\_\_

119: \_\_\_\_\_

120: \_\_\_\_\_