

Exam simulation

PPL(H) - Private Pilot License - Human Performance and limitations



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STUDENT NAME:

DATE AND TIME:

01. Which statement about retreating blade stall is correct?

- a) It occurs only while parked.
- b) It affects only the advancing blade first.
- c) It is associated with high forward speed, high gross mass, turbulence or high density altitude.
- d) It is prevented by exceeding VNE.

02. Basic empty mass is 810 kg, occupants are 85 kg and 60 kg, usable fuel for departure is 45 kg and MTOM is 980 kg. Is the mass within limits?

- a) Yes, because only basic empty mass is compared with the limit.
- b) No, the calculated take-off mass exceeds the limit.
- c) Yes, because fuel may be ignored for helicopters.
- d) The result cannot be assessed because passenger mass is irrelevant.

03. Which action best supports safe management of low cloud?

- a) Plan a route and altitude that maintain VFR margins.
- b) Delay the decision until after take-off.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

04. Why is pressure altitude important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It can be ignored when the flight remains local.
- c) It is replaced by passenger preference.
- d) It affects hover ceiling and climb performance.

05. Why is tip-path plane important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It represents the plane traced by the rotor blade tips.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

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06. Which statement about rotor RPM limits is correct?

- a) They apply only during maintenance.
- b) They must be respected because excessive or low RPM can be hazardous.
- c) They are advisory values with no operational meaning.
- d) They are selected by ATC.

07. The density of AVGAS 100LL at 15° C is...

- a) 1.0 kg/l
- b) 0.72 kg/l
- c) 0.82 kg/l
- d) 0.68 kg/l

08. In METAR/TAF coding, what does BR mean?

- a) Freezing rain.
- b) Clear sky below 5,000 ft.
- c) Variable wind direction.
- d) Mist.

09. 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 clear of any restricted or reserved airspaces, you can continue on your heading
- c) You are entering a restricted area, leave the airspace immediately
- d) Follow me

10. Urgency messages are messages...

- a) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight.
- b) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- 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 essential for the safety or regularity of aircraft operation.

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11. What information is broadcasted on a VOLMET frequency?

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

12. Which statement about translational lift is correct?

- a) It occurs only when stationary in a hover.
- b) It reduces all lift instantly.
- c) It is a radio navigation term.
- d) It improves rotor efficiency as the helicopter moves into cleaner horizontal airflow.

13. A risk factor for decompression sickness is...

- a) 100 % oxygen after decompression.
- b) Sports.
- c) Smoking.
- d) Scuba diving prior to flight.

14. True course is 080° and magnetic variation is 3° E. What is the magnetic course?

- a) 077°
- b) 083°
- c) 087°
- d) 067°

15. Which statement about VFR flight is correct?

- a) It is defined by the aircraft type only.
- b) It is always flown without radio.
- c) It must be conducted in accordance with visual flight rules and applicable VMC minima.
- d) It is permitted only at night.

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16. Given the following information, what is the aircraft position at the cross bearing? VOR Hamburg (HAM) (53°41'N, 010°12'E): Radial 119° VOR Brünkendorf (BKD) (53°02'N, 011°33'E): Radial 320° Use figure (NAV-031)



- a) 53°20'N, 11°10'E
- b) 52°20'N, 10°10'E
- c) 52°10'N, 10°20'E
- d) 54°40'N, 12°50'E

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17. What should a PPL(H) pilot do when operating close to a CTR?

- a) Assume it is inactive unless ATC calls first.
- b) Switch off the transponder to reduce workload.
- c) obtain the required ATC clearance before entry.
- d) Ignore it when flying VFR below 1,000 ft AGL.

18. The shown NOTAM is valid until... A) 1024/25 A) LOWW B) 2505211200 C) 2505211400 E) STOCKERAU VOR STO 113.00 UNSERVICEABLE.

- a) 21/05/2026 13:00 UTC.
- b) 21/05/2025 14:00 UTC.
- c) 13/05/2025 12:00 UTC.
- d) 13/10/2025 00:00 UTC.

19. Air traffic control service is conducted by which services?

- a) FIS (flight information service) AIS (aeronautical information service) AFS (aeronautical fixed telecommunication service)
- b) APP (approach control service) ACC (area control service) FIS (flight information service)
- c) TWR (aerodrome control service) APP (approach control service) ACC (area control service)
- d) ALR (alerting service) SAR (search and rescue service) TWR (aerodrome control service)

20. What should a PPL(H) pilot do before entering a prohibited area?

- a) remain clear unless specific authorisation is held.
- b) Assume it is inactive unless ATC calls first.
- c) Switch off the transponder to reduce workload.
- d) Ignore it when flying VFR below 1,000 ft AGL.

21. Which human-factor point is most relevant? A pilot notices strong pressure to satisfy passengers.

- a) The event has no operational relevance.
- b) The correct response is to increase workload.
- c) The pilot should ignore symptoms until after landing.
- d) External pressure should be recognised as a human-factor threat.

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22. What aerodynamic effect is most relevant? Density altitude increases.

- a) The altimeter setting becomes invalid.
- b) rotor thrust and engine performance margins normally decrease.
- c) The magnetic compass becomes the primary lift source.
- d) The aircraft mass automatically decreases.

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

- 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

24. Which statement about a restricted area is correct?

- a) It may be entered only in accordance with the published restrictions.
- b) It may never be entered under any circumstances.
- c) It is always uncontrolled airspace with no requirements.
- d) It exists only above FL 195.

25. What pressure pattern can be observed when a cold front is passing?

- a) Continually increasing pressure
- b) Continually decreasing pressure
- c) Constant pressure pattern
- d) Shortly decreasing, thereafter increasing pressure

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

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

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27. What situation may result in the occurrence of severe wind shear?

- a) Flying ahead of a warm front with visible Ci clouds
- b) Cross-country flying below Cu clouds with about 4 octas coverage
- c) During final approach, 30 min after a heavy shower has passed the aerodrome
- d) When a shower is visible close to the aerodrome

28. The EOBT (estimated off-block time) is specified in the ATS flight plan as...

- a) Coordinated Universal Time (UTC).
- b) Local Mean Time (LMT).
- c) Standard Time (ST).
- d) Central European Time (CET).

29. Which action best supports safe management of convective SIGMET information?

- a) Delay the decision until after take-off.
- b) Avoid affected areas by a safe margin.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

30. Which altitude is displayed on the altimeter when set to a specific QFE?

- a) Altitude in relation to the highest elevation within 10 km
- b) Altitude in relation to the air pressure at the reference aerodrome
- c) Altitude in relation to the 1013.25 hPa datum
- d) Altitude in relation to mean sea level

31. Which action best supports safe management of hot refuelling risk?

- a) Use only approved procedures and trained personnel.
- b) Delay the decision until after take-off.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

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32. Why is surface wind gusts important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It can be ignored when the flight remains local.
- c) It is replaced by passenger preference.
- d) They can affect control during hover, take-off and landing.

33. Which factor affects the available response time to initiate an autorotation after engine failure?

- a) Movement of the pressure point
- b) Functionality of the coupling
- c) Inertia of the main rotor system
- d) Profile shape of the rotor blades

34. For using a helicopter type rating, which statement is correct?

- a) the type rating must be valid.
- b) A valid passport alone is sufficient.
- c) The requirement applies only to commercial pilots.
- d) The aircraft insurance certificate replaces pilot recency.

35. What is the safest operational response? The wind shifts and the approach becomes downwind in a confined area.

- a) Continue as planned because helicopters can land anywhere.
- b) Delay all action until reaching destination.
- c) Reassess the approach and performance before continuing.
- d) Ask passengers to decide the next action.

36. Which statement about a rhumb line is correct?

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

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37. Which statement about settling with power is correct?

- a) It is associated with vortex ring state conditions.
- b) It means the engine has failed completely.
- c) It is caused by excessive QNH.
- d) It improves climb performance.

38. Wake turbulence behind a preceding aircraft is particularly strong...

- a) When the aircraft uses high thrust at low mass.
- b) At high aircraft mass.
- c) At low aircraft mass.
- d) When the aircraft uses low thrust at high speed.

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39. What cloud type does the picture show? Use figure (MET-004).



- a) Stratus
- b) Altocumulus
- c) Cirrus
- d) Cumulus

40. What is the meaning of the abbreviation "SERA"?

- a) Standard European Routes of the Air
- b) Selective Radar Altimeter
- c) Specialised Radar Approach
- d) Standardised European Rules of the Air

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41. 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.

42. Carbon monoxide contamination in the cabin of a piston-engine helicopter can be caused by...

- a) Generator failure
- b) Cracks or leaks in the cabin heating system
- c) Fuel or hydraulic fluid in the tanks
- d) Pitot icing

43. Which statement about hyperventilation is correct?

- a) It always improves oxygen delivery.
- b) It may be associated with stress and can cause tingling or dizziness.
- c) It is corrected by climbing higher.
- d) It is a sign of perfect workload management.

44. During hover flight (HOGE - out of ground effect) with maximum power, how does the pilot compensate for a loss of power resulting from the use of carburettor heat?

- a) Enrich the mixture
- b) Open the vents
- c) Adjust the height in a hover
- d) Turn on the electrical fuel pump

45. Which statement about a clutch is correct?

- a) It measures manifold pressure.
- b) It stores hydraulic pressure.
- c) It replaces the tail rotor.
- d) It allows engine power to be engaged progressively to the rotor system.

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46. In METAR/TAF coding, what does SCT mean?

- a) Freezing rain.
- b) Scattered cloud.
- c) Clear sky below 5,000 ft.
- d) Variable wind direction.

47. What is the meaning of a flashing white light to an aircraft on the ground?

- a) Cleared for take-off.
- b) Make a right-hand circuit.
- c) Return to starting point on the aerodrome.
- d) Squawk 7600 immediately.

48. 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

49. Which statement about torque reaction is correct?

- a) The fuselage tends to rotate opposite to main rotor torque unless balanced.
- b) It is a GPS position error.
- c) It affects only gliders.
- d) It is eliminated by changing QNH.

50. The term 'agonic line' is defined as a line on Earth or an aeronautical chart, connecting all points with the...

- a) Heading of 0°
- b) Inclination of 0°
- c) Variation of 0°
- d) Deviation of 0°

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51. 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 oil will become diluted
- d) The engine might start with not enough power

52. Which statement about profile drag is correct?

- a) It is caused only by radio antennas.
- b) It is associated with the rotor blade moving through the air.
- c) It disappears when blade pitch increases.
- d) It is unrelated to rotor speed.

53. During an approach the aircraft experiences wind shear with an increasing headwind. If the pilot does not make any correction, how do the approach path and the indicated airspeed (IAS) change?

- a) Path is higher, IAS increases
- b) Path is higher, IAS decreases
- c) Path is lower, IAS increases
- d) Path is lower, IAS decreases

54. During a flight in an air mass with a temperature equal to ISA and the QNH set correctly, the indicated altitude is...

- a) Equal to the true altitude.
- b) Lower than the true altitude.
- c) Higher than the true altitude.
- d) Equal to the standard atmosphere.

55. 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.

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

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

57. Why is track made good important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It can be ignored when the flight remains local.
- c) It is replaced by passenger preference.
- d) It shows the actual ground path flown.

58. Which human-factor point is most relevant? A pilot feels tingling in the fingers and dizziness after rapid breathing during a stressful event.

- a) Hyperventilation should be considered.
- b) The event has no operational relevance.
- c) The correct response is to increase workload.
- d) The pilot should ignore symptoms until after landing.

59. Which gauges involve a measurement of temperature?

- a) Engine lubricant, exhaust gas, outside air, cabin air, directional gyro
- b) Engine lubricant, cylinder head, exhaust gas, suction, outside air, cabin air
- c) Engine lubricant, engine cooling fluid, cylinder head, exhaust gas, outside air, cabin air
- d) Engine oil, cylinder head, exhaust gas, altimeter, airspeed indicator, vertical speed indicator

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

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

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61. Why does a flare during an autorotation generate higher rotor RPM?

- a) The pitch angle increases
- b) The vertical airflow through the rotor disc increases
- c) The tangential force tilts backwards
- d) The ground effect leads to better performance

62. Which statement about an engine failure in cruise is correct?

- a) Enter autorotation and follow the flight manual emergency procedure.
- b) Increase collective to maintain altitude indefinitely.
- c) Switch off the rotor brake.
- d) Ignore rotor RPM until landing.

63. Which statement about sterile cockpit discipline is correct?

- a) It is used only in pressurised aircraft.
- b) It means turning off all avionics.
- c) It helps reduce distraction during critical phases.
- d) It is unrelated to safety.

64. Which action best supports safe management of flapping hinge function?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Understand its role in rotor dynamics.
- d) Ignore it when the helicopter has sufficient fuel.

65. What does a readability of 1 indicate?

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

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66. What does the abbreviation "QTE" stand for?

- a) Magnetic bearing to the station
- b) True bearing to the station
- c) True bearing from the station
- d) Magnetic bearing from the station

67. What phenomenon is caused by cold air downdrafts with precipitation from a fully developed thunderstorm cloud?

- a) Anvil-head top of Cb cloud
- b) Freezing Rain
- c) Electrical discharge
- d) Gust front

68. What is the distance between the parallels of latitude 48°N and 49°N along a meridian line?

- a) 111 NM
- b) 10 NM
- c) 1 NM
- d) 60 NM

69. What kind of helicopter needs a tail rotor?

- a) Single-rotor helicopter with shaft drive
- b) Twin-rotor helicopter with counter-rotating main rotors
- c) Single-rotor helicopter with blade drive
- d) Twin-rotor autogyro with counter-rotating main rotors

70. Which human-factor point is most relevant? A pilot is unsure whether a new antihistamine is safe for flying.

- a) The event has no operational relevance.
- b) The correct response is to increase workload.
- c) The pilot should ignore symptoms until after landing.
- d) The pilot should obtain aeromedical advice before flying.

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Response Scheme

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

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

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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: _____
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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: _____		