

Exam simulation

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



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STUDENT NAME:

DATE AND TIME:

01. Which statement about lookout technique is correct?

- a) It is best performed by staring at one point.
- b) It should use systematic scanning and attention to likely conflict areas.
- c) It is unnecessary in controlled airspace.
- d) It can be replaced by radio monitoring only.

02. For carrying passengers by day, which statement is correct?

- a) A valid passport alone is sufficient.
- b) The requirement applies only to commercial pilots.
- c) recent take-offs and landings must be completed as required.
- d) The aircraft insurance certificate replaces pilot recency.

03. In METAR/TAF coding, what does SHRA mean?

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

04. 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

05. How can a wind direction indicator be marked for better visibility?

- a) The wind direction indicator could be surrounded by a white circle.
- b) The wind direction indicator could be made from green materials.
- c) The wind direction indicator may be mounted on top of the control tower.
- d) The wind direction indicator could be located on a big black surface.

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06. Which part of the visual system is responsible for colour vision?

- a) Cones
- b) Rods
- c) Macula
- d) Blind spot

07. 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

08. What is a likely consequence of alternator failure?

- a) The altimeter automatically resets to standard pressure.
- b) battery power may be the remaining electrical source.
- c) The aircraft becomes exempt from maintenance requirements.
- d) The transponder changes to emergency code automatically.

09. Which statement about a piston engine manifold pressure gauge is correct?

- a) It indicates magnetic variation.
- b) It indicates induction pressure and is related to engine power.
- c) It measures rotor blade coning.
- d) It displays DME distance.

10. 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

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11. Which statement about landing site selection after failure is correct?

- a) Only the shortest distance matters.
- b) Surface and wind are irrelevant to helicopters.
- c) A downwind approach is always best.
- d) Wind, obstacles, surface, slope and available approach path should be considered.

12. What is the purpose of the vertical stabilizer?

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

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. Which of the following messages has the highest priority?

- a) Turn left
- b) Wind 300 degrees, 5 knots
- c) Request QDM
- d) QNH 1013

15. 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.

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16. Which statement about wind correction angle is correct?

- a) It is an altimeter correction.
- b) It is used only during hover.
- c) It is applied to heading to maintain the desired track.
- d) It is the difference between QNH and QFE.

17. Why is stall region in autorotation 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 produces drag and does not drive the rotor efficiently.

18. What does the abbreviation "QDR" stand for?

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

19. What is the meaning of an area marked as "TMZ"?

- a) Transponder Mandatory Zone
- b) Traffic Management Zone
- c) Touring Motorglider Zone
- d) Transportation Management Zone

20. Which action best supports safe management of freezing level?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Compare planned altitude with freezing level and cloud.
- d) Ignore it when the helicopter has sufficient fuel.

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21. Which statement about high pressure is correct?

- a) It always produces thunderstorms.
- b) It means pressure decreases towards the centre.
- c) It is the same as a warm front.
- d) It is often associated with subsidence and more stable air.

22. Which statement about the right of way in head-on traffic is correct?

- a) Both aircraft should alter course to the right.
- b) The lighter aircraft always climbs.
- c) Only the aircraft on the left changes heading.
- d) Both aircraft alter course to the left.

23. Winds blowing uphill are defined as...

- a) Subsident winds.
- b) Katabatic winds.
- c) Convergent winds.
- d) Anabatic winds.

24. The compass error caused by the aircraft's magnetic field is called...

- a) Deviation.
- b) Declination.
- c) Inclination.
- d) Variation.

25. Which statement about empty-field myopia is correct?

- a) It can make visual scanning less effective when there are few visual cues.
- b) It improves lookout in haze.
- c) It is a radio navigation error.
- d) It affects only instrument-rated pilots.

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26. Light turbulence always has to be expected...

- a) Below cumulus clouds due to thermal convection.
- b) Above cumulus clouds due to thermal convection.
- c) When entering inversions.
- d) Below stratiform clouds in medium layers.

27. Which statement about hypoxia is correct?

- a) It can impair judgement and performance before the pilot is fully aware of it.
- b) It improves night vision.
- c) It is caused only by carbon monoxide.
- d) It is prevented by drinking coffee.

28. What is the difference between primary and secondary radar?

- a) The pulses of a primary radar are reflected by the aircraft's surface, the pulses of a secondary radar system are answered by a transponder
- b) The pulses of a primary radar are variably pulse-modulated, the pulses of a secondary radar are statically amplitude-modulated
- c) The pulses of a primary radar are variably amplitude-modulated, the pulses of a secondary radar are statically pulse-modulated
- d) The primary radar is displayed on a computer screen, the secondary radar on a radar strip

29. 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.

30. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?

- a) Roger
- b) Wilco
- c) Squawk 4321, 131.325
- d) Squawk 4321, wilco

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31. Given a visibility of 12 km, what is the correct way to transmit this visibility?

- a) One-zero kilometres.
- b) One-two kilometres.
- c) Twelve kilometres.
- d) One-zero kilometres or more.

32. What document contains information about the fuel consumption?

- a) Mass and balance report
- b) Log book
- c) Flight manual (POH)
- d) Airworthiness certificate

33. In what case is visibility transmitted in metres?

- a) Up to 5 km
- b) Greater than 5 km
- c) Up to 10 km
- d) Greater than 10 km

34. Which statement about mast bumping is correct?

- a) It is an altimeter calibration method.
- b) It occurs only after shutdown.
- c) It is a hazard associated with some teetering rotor systems under low-G or abrupt control conditions.
- d) It is solved by applying rotor brake in flight.

35. What must be considered for cross-border flights?

- a) Regular location messages
- b) Approved exceptions
- c) Transmission of hazard reports
- d) Requires flight plans

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36. Full deflection of the course deviation indicator (CDI) means that the aircraft is located at least...

- a) 10° beside the selected course
- b) 2° beside the selected course.
- c) 2 NM beside the selected course.
- d) 10 NM beside the selected course.

37. Distance to the next waypoint is 45 NM and groundspeed is 75 kt. What is the estimated time en route?

- a) 36 minutes
- b) 30 minutes
- c) 44 minutes
- d) 100 minutes

38. What information is broadcasted on a VOLMET frequency?

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

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

- a) Cleared to taxi
- b) Land at this airport and proceed to the apron
- c) Cleared for take-off
- d) Return to starting point

40. Distance to the next waypoint is 90 NM and groundspeed is 120 kt. What is the estimated time en route?

- a) 39 minutes
- b) 53 minutes
- c) 45 minutes
- d) 80 minutes

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41. 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

42. The centre of gravity has to be located...

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

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



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

44. What is the result of the vortex ring state?

- a) The helicopter is more stable
- b) The helicopter loses power
- c) The sink rate increases uncontrollably
- d) The rotor RPM increases

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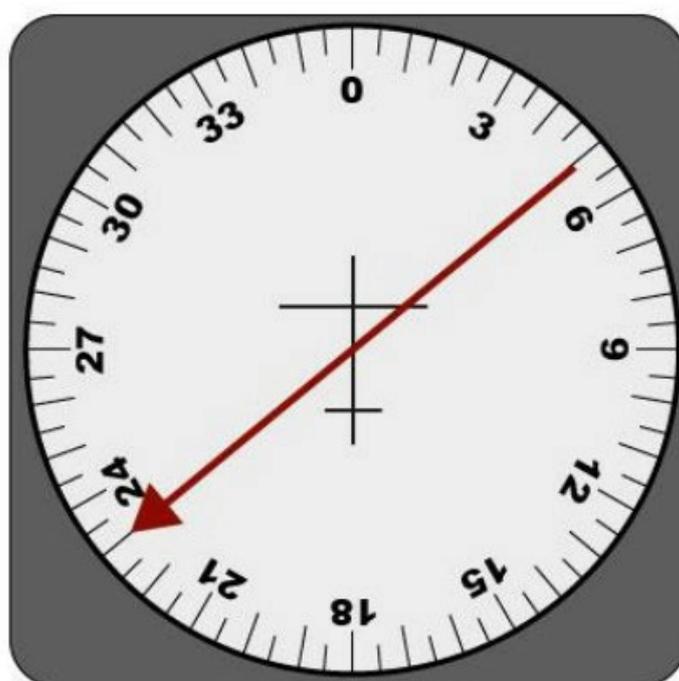
45. Which components do rotor blades made of wood contain?

- a) Spar of wood, filling material of plastic, and outer skin of wood
- b) Spar of wood, filling material of wood, and outer skin of plastic
- c) Spar of metal, filling material of metal, and erosion protection of wood
- d) Spar of metal, filling material of wood and erosion protection of metal

46. The pilot wants to proceed directly to the beacon. The wind is calm. The pilot should follow a QDM of... Use figure (NAV-019)



NAV-019



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

47. What devices can be affected by a failure of the electrical system in a helicopter?

- a) Airspeed indicator, altimeter and artificial horizon
- b) Radio equipment, navigation equipment and magnetic compass
- c) Radio equipment, navigation equipment and gyros
- d) Fuel quantity indication, radio equipment and altimeter

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48. 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.

49. What has to be considered during refueling?

- a) Apply ground wires, turn on the main switch and magneto ignition
- b) No open fires, obey smoking ban and apply ground cables
- c) Check the fuel content of the tank with a torch and remove fire protection
- d) Refuel through a soaked rag and keep a fire extinguisher available

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

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

51. Which action best supports safe management of temperature-dew point spread?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Monitor small spreads, especially near evening or morning.
- d) Ignore it when the helicopter has sufficient fuel.

52. Which statement about bird strike risk is correct?

- a) It exists only above FL 100.
- b) It is eliminated by landing lights.
- c) It affects only turbine aircraft.
- d) It is increased near wetlands, coastlines, landfill sites and during migration periods.

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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. Which danger exists during engine start?

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

55. What does the abbreviation "FIS" stand for?

- a) Flight information service
- b) Flashing information service
- c) Flight information system
- d) Flashing information system

56. The planned distance is 54 NM and groundspeed is 108 kt. What is the approximate flight time?

- a) 22 minutes
- b) 40 minutes
- c) 30 minutes
- d) 48 minutes

57. 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...

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

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58. 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

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

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

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

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

61. Where can the type of restriction for a restricted airspace be found?

- a) NOTAM
- b) AIP
- c) AIC
- d) ICAO chart 1:500000

62. What is the best planning conclusion for surface wind veering strongly with height?

- a) Continue without checking updated weather.
- b) consider wind shear during take-off or landing.
- c) Assume VMC is guaranteed.
- d) Use QFE instead of weather information.

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63. 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.

64. What is the correct phrase to begin a blind transmission?

- a) Blind
- b) Transmitting blind
- c) No reception
- d) Listen

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

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

66. VOR radials are defined based on the principle of...

- a) Amplitude comparison of two signals.
- b) Pulse comparison of two signals.
- c) Phase comparison of two signals.
- d) Frequency comparison of two signals.

67. During a flight in colder-than-ISA air the indicated altitude is...

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

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68. The term "runway" is defined as a...

- a) Rectangular area on a land or water aerodrome prepared for the landing and take-off of aircraft.
- b) Round area on an aerodrome prepared for the landing and take-off of aircraft.
- c) Rectangular area on a land aerodrome prepared for the landing and take-off of helicopters.
- d) Rectangular area on a land aerodrome prepared for the landing and take-off of aircraft.

69. Which action best supports safe management of take-off power margin?

- a) Compare the planned mass and conditions with flight manual performance data.
- 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.

70. Which statement about MAYDAY is correct?

- a) It is used for distress when grave and imminent danger requires immediate assistance.
- b) It is used only for weather information.
- c) It means the flight plan is closed.
- d) It is a routine taxi instruction.

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Response Scheme

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

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

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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: _____		