

Exam simulation

PPL(H) - Private Pilot License - Aircraft General Knowledge



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STUDENT NAME:

DATE AND TIME:

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

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

02. An inversion is a layer...

- a) With increasing pressure with increasing height
- b) With decreasing temperature with increasing height
- c) With increasing temperature with increasing height
- d) With constant temperature with increasing height

03. What is the mass of a cube of air with edges 1 m long at MSL according to ISA?

- a) 12.25 kg
- b) 1.225 kg
- c) 0.1225 kg
- d) 0.01225 kg

04. What can be expected during a hover flight in ground effect within a forest glade?

- a) Useful ground effect caused by a smaller induced airflow
- b) No air turbulence through the slipstream and stable attitude
- c) Aspiration of the tail rotor in the direction of the forest and a performance gain
- d) Recirculation of air masses and an impairment of the ground effect

05. Why is post-landing shutdown important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It should follow the flight manual sequence.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

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

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

07. 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

08. What is the function of the white blood cells (leucocytes)?

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

09. What is the safest operational response? A warning light illuminates shortly after take-off.

- a) Maintain control, follow the flight manual and land as appropriate.
- b) Continue as planned because helicopters can land anywhere.
- c) Delay all action until reaching destination.
- d) Ask passengers to decide the next action.

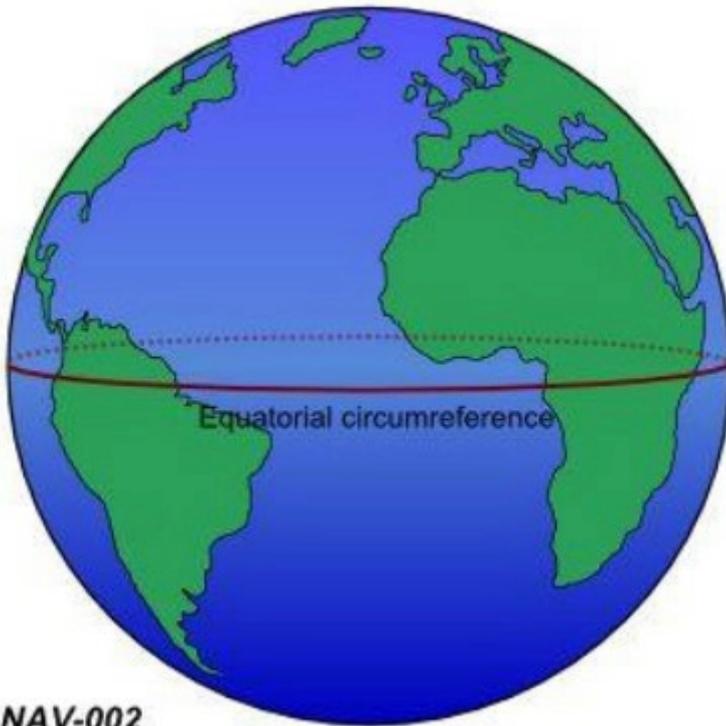
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10. The circumference of the Earth at the equator is approximately... Use figure (NAV-002)



- a) 10800 km.
- b) 40000 NM.
- c) 12800 km.
- d) 21600 NM.

11. What is the meaning of the phrase "Approved"?

- a) An error has been made in this transmission. The correct version is...
- b) I have received all of your last transmission
- c) Permission for proposed action is granted
- d) I understand your message and will comply with it

12. Why is passenger mass accuracy important for a PPL(H) flight?

- a) Incorrect mass can invalidate performance and balance calculations.
- b) It is relevant only to airline transport operations.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

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13. What impression may be caused when approaching a runway with an upslope?

- a) A landing beside the centreline
- b) An overshoot
- c) An undershoot
- d) A hard landing

14. QFE is the...

- a) Barometric pressure adjusted to sea level, using the international standard atmosphere (ISA).
- b) Magnetic bearing to a station.
- c) Barometric pressure at a reference datum, typically the runway threshold of an aerodrome.
- d) Altitude above the reference pressure level 1013.25 hPa.

15. What is the risk arising in a vertical autorotation with a subsequent increase in airspeed prior to the landing?

- a) High rotor RPM
- b) Vortex ring state
- c) Loss of the tail rotor efficiency
- d) Misjudgement when increasing the airspeed

16. Which statement about readback is correct?

- a) Wind direction never has to be acknowledged.
- b) Only passenger names require readback.
- c) Clearances, runway instructions, QNH and SSR codes normally require correct readback.
- d) Readback is optional for all ATC clearances.

17. When air masses meet each other head on, how is this referred to and what air movements will follow?

- a) Convergence resulting in air being lifted
- b) Divergence resulting in air being lifted
- c) Convergence resulting in sinking air
- d) Divergence resulting in sinking air

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18. What happens during oil filter clogging?

- a) A bypass valve opens thus enabling the circulation to continue, debris will not be filtered
- b) The oil circulation will end after 30 minutes so that a proper engine run will not be guaranteed
- c) A bypass valve opens thus enabling the circulation to continue, debris will be filtered by an alternate filter
- d) The oil circulation will end after 15 minutes so that a proper engine run will not be guaranteed

19. Distance to the next waypoint is 80 NM and groundspeed is 100 kt. What is the estimated time en route?

- a) 42 minutes
- b) 56 minutes
- c) 75 minutes
- d) 48 minutes

20. Which statement about fatigue is correct?

- a) It affects only physical strength.
- b) It is eliminated by opening a window.
- c) It has no effect on private pilots.
- d) It reduces attention, judgement and reaction time.

21. Why is task saturation important for a PPL(H) flight?

- a) It can lead to missed information and procedural errors.
- b) It is relevant only to airline transport operations.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

22. Which statement about TAF is correct?

- a) It is a current runway inspection only.
- b) It is a transponder code.
- c) It is an aerodrome forecast.
- d) It is a fuel calculation method.

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23. Which action best supports safe management of unusual vibration?

- a) Delay the decision until after take-off.
- b) Land as soon as appropriate and have the aircraft inspected.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

24. Which statement about confirmation bias is correct?

- a) It is a method for calculating fuel.
- b) It is a type of hypoxia.
- c) It improves decision-making under stress.
- d) It is the tendency to favour information that supports an existing expectation.

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

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

26. Which statement about DME is correct?

- a) It provides only magnetic heading.
- b) It measures cloud base.
- c) It gives wind speed directly.
- d) It provides slant range distance from the station.

27. QNE is the...

- a) Barometric pressure at a reference datum, typically the runway threshold of an aerodrome.
- b) Altitude above the reference pressure level 1013.25 hPa.
- c) Magnetic bearing to a station.
- d) Barometric pressure adjusted to sea level, using the international standard atmosphere (ISA).

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28. Magnetic heading is 300° and compass deviation is 7° E. What compass heading should be flown?

- a) 307°
- b) 293°
- c) 308°
- d) 278°

29. Which is the colour of runway edge lights?

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

30. What is the most likely reason for the starter not turning when activated?

- a) The magnetos are defect
- b) The ignition is short-circuited
- c) The rotor break is engaged
- d) The alternator is defect

31. Which statement about a filed VFR flight plan is correct?

- a) It should be closed or arrival reported where required to avoid unnecessary alerting action.
- b) It closes automatically when the engine is shut down everywhere.
- c) It is required for every local flight in uncontrolled airspace.
- d) It cancels all radio requirements.

32. What should a PPL(H) pilot do before entering a RMZ?

- a) establish or maintain the required radio communication.
- 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.

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33. Which statement is correct with regard to the short-term memory?

- a) It can store 3 (± 1) items for 5 to 10 seconds
- b) It can store 5 (± 2) items for 1 to 2 minutes
- c) It can store 10 (± 5) items for 30 to 60 seconds
- d) It can store 7 (± 2) items for 10 to 20 seconds

34. Why is hover ceiling 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 depends on mass, density altitude, wind and power available.

35. Leaving a control frequency (except when reaching the final parking position)...

- a) Must be approved
- b) Is not mandatory to be reported
- c) Must be reported
- d) Must be approved twice

36. Which navigation facility may be used for broadcasting the ATIS?

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

37. How do dew point and relative humidity change with decreasing temperature?

- a) Dew point decreases, relative humidity increases
- b) Dew point remains constant, relative humidity increases
- c) Dew point increases, relative humidity decreases
- d) Dew point remains constant, relative humidity decreases

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38. 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

39. Why is door and latch security 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 prevents distraction and possible damage in flight.
- d) It is replaced by passenger preference.

40. Which statement about temperature inversion is correct?

- a) It is a layer where temperature increases with height.
- b) It is a layer where pressure increases with height.
- c) It always improves vertical mixing.
- d) It is the same as a cold front.

41. The term "aerodrome elevation" is defined as...

- a) The highest point of the landing area.
- b) The lowest point of the landing area.
- c) The average value of the height of the manoeuvring area.
- d) The highest point of the apron.

42. Why is fuel selector position 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) An incorrect selection can interrupt fuel supply.

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43. What factor is affected by headwind during a departure?

- a) Rate of climb
- b) Climb path angle
- c) V_x
- d) V_y

44. Which of the mentioned cockpit instruments is connected to the pitot tube?

- a) Vertical speed indicator
- b) Airspeed indicator
- c) Altimeter
- d) Direct-reading compass

45. Which landing site (no wind) prevents the impairment of the ground effect?

- a) Plain terrain
- b) Narrow forest glade
- c) Elevated helipad
- d) Sloping ground

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

- 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.

47. Which action best supports safe management of pre-flight rotor blade inspection?

- a) Inspect the blades using the flight manual checklist.
- 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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48. Why is tail rotor drift 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) Sideways force may require cyclic correction in hover.

49. Which statement about a rotor brake is correct?

- a) It is used to control yaw in flight.
- b) It is used to slow or stop the rotor after shutdown when permitted by the flight manual.
- c) It replaces the freewheel unit.
- d) It should be applied during autorotation.

50. Which kind of engine is susceptible to carburettor fire?

- a) Turboprop engines
- b) Turbine engines
- c) Piston engines
- d) Electric motors

51. Moderate to severe turbulence has to be expected...

- a) Below thick cloud layers on the windward side of a mountain range.
- b) Overhead unbroken cloud layers.
- c) With the appearance of extended low stratus clouds (high fog)
- d) On the lee side of a mountain range when rotor clouds are present.

52. Which dangerous situation could arise when the helicopter engine is started in strong tailwind conditions?

- a) Decompression sickness
- b) Carbon monoxide poisoning
- c) Binocular vision
- d) Rotary vertigo

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53. 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

54. How do spread and relative humidity change with increasing temperature?

- a) Spread increases, relative humidity decreases
- b) Spread remains constant, relative humidity increases
- c) Spread increases, relative humidity increases
- d) Spread remains constant, relative humidity decreases

55. What is the safest operational response? A door opens in flight on a type where controllability remains normal.

- a) Continue as planned because helicopters can land anywhere.
- b) Delay all action until reaching destination.
- c) Ask passengers to decide the next action.
- d) Fly the aircraft and follow the abnormal procedure.

56. 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.

57. 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.

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58. What is the minimum flight visibility in airspace "C" at and above FL 100 for an aircraft operating under VFR?

- a) 1.5 km
- b) 10 km
- c) 8 km
- d) 5 km

59. During lift-off the helicopter rotates much more than expected. This indicates that...

- a) The helicopter is overloaded.
- b) The centre of gravity is much more aft than expected.
- c) The centre of hub is overhead of the centre of gravity.
- d) The power required equals the power available.

60. The measurement of altitude is based on the change of the...

- a) Static pressure.
- b) Dynamic pressure.
- c) Total pressure.
- d) Differential pressure.

61. Which statement about the collective lever is correct?

- a) It changes only tail rotor pitch.
- b) It controls the altimeter subscale.
- c) It selects the fuel tank vent.
- d) It changes the pitch of all main rotor blades collectively.

62. 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

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63. Which type of airspace may be crossed subject to certain restrictions?

- a) Danger area
- b) Restricted area
- c) No-fly zone
- d) Prohibited area

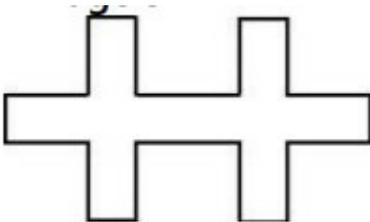
64. The angle between the magnetic course and the true course is called...

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

65. What cloud type can typically be observed across widespread high pressure areas during summer?

- a) Overcast low stratus
- b) Squall lines and thunderstorms
- c) Scattered Cu clouds
- d) Overcast Ns clouds

66. What is the meaning of this sign at an aerodrome? Use figure (ALW-011)



- a) Glider flying is in progress
- b) Landing prohibited for a longer period
- c) After take-off and before landing all turns have to be made to the right
- d) Caution, manoeuvring area is poor

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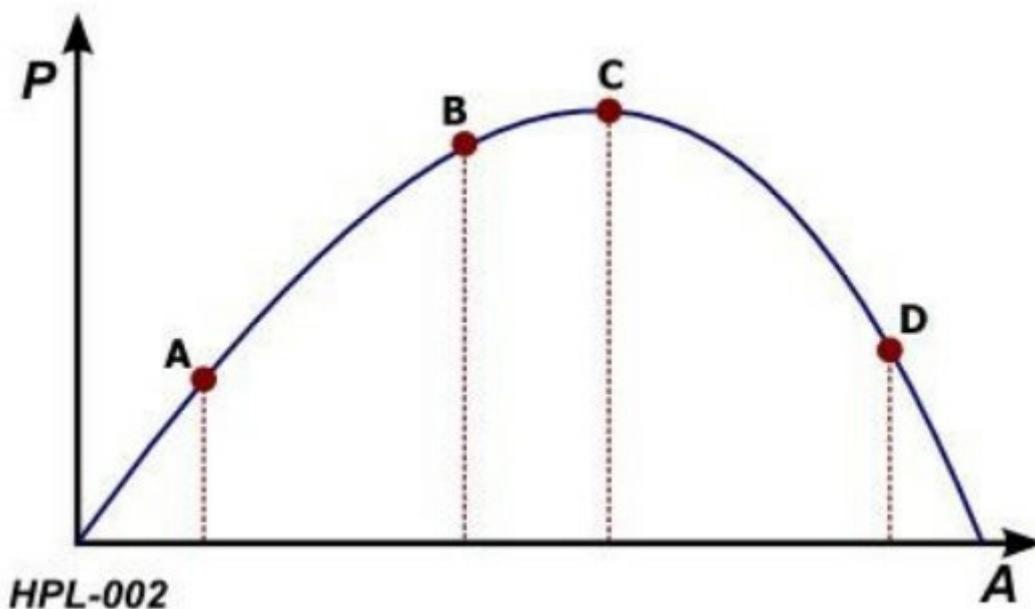


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67. An acceleration during a straight horizontal flight can lead to the illusion of...

- a) A bank.
- b) A descent.
- c) A climb.
- d) An inverted flight.

68. The ideal level of arousal is at which point in the diagram? Use figure (HPL- 002) P = Performance A = Arousal / Stress



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

69. Which statement about fuel planning is correct?

- a) It may ignore start, taxi and holding fuel.
- b) It must include planned fuel, contingencies/reserves and operational requirements.
- c) It is not needed for local flights.
- d) It is always based on maximum fuel only.

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70. Which altitude is displayed on the altimeter when set to a specific QNH?

- a) Altitude in relation to mean sea level
- 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 the highest elevation within 10 km

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Response Scheme

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

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