

Exam simulation

PPL(H) - Private Pilot License - Communication



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STUDENT NAME:

DATE AND TIME:

01. Which equipment is needed on board an aircraft to receive signals from a non-directional beacon (NDB)?

- a) Horizontal situation indicator (HSI)
- b) Secondary surveillance radar (SSR)
- c) Automatic direction finder (ADF)
- d) Course deviation indicator (CDI)

02. The balance arm is the horizontal distance between...

- a) The CG of a mass and the datum line.
- b) The CG of a mass and the rear CG limit.
- c) The front CG limit and the datum line.
- d) The front CG limit and the rear CG limit.

03. The distance between the centre of gravity and the datum is called...

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

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

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

05. What does the dynamic pressure depend directly on?

- a) Lift- and drag coefficient
- b) Air pressure and air temperature
- c) Air density and airflow speed squared
- d) Air density and lift coefficient



06. What is a tubular steel construction with a non self-supporting skin called?

- a) Grid construction
- b) Honeycomb structure
- c) Monocoque construction
- d) Semi-monocoque construction

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

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

08. How can a pilot confirm a search and rescue signal on ground in flight?

- a) Push the rudder in both directions multiple times
- b) Fly in a parabolic flight path multiple times
- c) Rock the wings
- d) Deploy and retract the landing flaps multiple times

09. Why is surface condition important for a PPL(H) flight?

- a) Dust, snow, slope or loose material can affect safety.
- 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.

10. Which type of cloud is associated with prolonged rain?

- a) Cumulonimbus
- b) Nimbostratus
- c) Cirrostratus
- d) Altocumulus

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11. Why is fuel drain sampling important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It can reveal water, sediment or wrong fuel before engine start.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

12. An aircraft is following a true course (TC) of 220° at a constant TAS of 220 kt. The wind vector is 270°/50 kt. The ground speed (GS) equals...

- a) 135 kt
- b) 255 kt
- c) 170 kt
- d) 185 kt

13. What is the call sign of the flight information service?

- a) Advice
- b) Flight information
- c) Info
- d) Information

14. What is the meaning of the abbreviation "ARC"?

- a) Airspace Restriction Criteria
- b) Airworthiness Recurring Control
- c) Airspace Rulemaking Committee
- d) Airworthiness Review Certificate

15. Which transponder code should be set during a radio failure without any request?

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

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16. Calibrated airspeed (CAS) equals...

- a) Ground speed (GS) corrected for instrument and position error.
- b) True airspeed (TAS) corrected for wind.
- c) Indicated airspeed (IAS) corrected for instrument and position error.
- d) Equivalent airspeed (EAS) corrected for altitude.

17. A flight level is a...

- a) True altitude.
- b) Pressure altitude.
- c) Altitude above ground.
- d) Density altitude.

18. Which action best supports safe management of magnetic variation update?

- a) Delay the decision until after take-off.
- b) Use current chart or database values.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

19. 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.

20. Why is magnetic variation update important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) Outdated variation can create heading and bearing errors.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

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21. Which statement about cyclic pitch is correct?

- a) It changes all blade pitch equally.
- b) It controls fuel flow only.
- c) It tilts the rotor disc to control movement around pitch and roll axes.
- d) It is used only after shutdown.

22. Which human-factor point is most relevant? A pilot continues toward deteriorating weather because the destination is close.

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

23. For a short flight from A to B the pilot extracts the following information from an aeronautical chart: True course: 245°. Magnetic variation: 7° W The magnetic course (MC) equals...

- a) 252°.
- b) 245°.
- c) 007°.
- d) 238°.

24. 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

25. 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

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26. Distance to the next waypoint is 50 NM and groundspeed is 80 kt. What is the estimated time en route?

- a) 32 minutes
- b) 38 minutes
- c) 46 minutes
- d) 96 minutes

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

- 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

28. Considering the following fuel data, how much trip fuel is required? Fuel for start-up and taxi: 5 L Fuel for take-off and climb: 12 L Fuel for cruise flight: 25 L Fuel for descent, approach and landing: 7 L Fuel for taxi and parking: 3 L Fuel to alternate: 13 L Final reserve fuel: 10 L

- a) 75 L
- b) 49 L
- c) 44 L
- d) 52 L

29. The average decrease of blood alcohol level for an adult in one hour is approximately...

- a) 0.3 percent
- b) 0.01 percent
- c) 0.1 percent
- d) 0.03 percent

30. 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.

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31. Which statement about longitude is correct?

- a) It is measured north or south of the Equator.
- b) It is the same as pressure altitude.
- c) It is measured east or west of the Greenwich meridian.
- d) It is a cloud amount code.

32. 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.

33. Which of the following factors affects the reception of VHF transmissions?

- a) Height of ionosphere
- b) Twilight error
- c) Altitude
- d) Shoreline effect

34. Under what conditions may class D airspace be entered with a radio failure?

- a) There are other aircraft in the aerodrome circuit
- b) It is the destination aerodrome
- c) Approval has been granted before
- d) It is the aerodrome of departure

35. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL110?

- a) 8000 m
- b) 3000 m
- c) 1500 m
- d) 5000 m

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36. Why is transverse flow effect important for a PPL(H) flight?

- a) It can produce vibration and attitude changes during acceleration.
- 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.

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

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

38. Why is updated METAR and TAF review important for a PPL(H) flight?

- a) Weather can change after initial planning and affect VFR suitability.
- 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.

39. 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

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

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

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41. The planned distance is 100 NM and groundspeed is 120 kt. What is the approximate flight time?

- a) 50 minutes
- b) 42 minutes
- c) 60 minutes
- d) 68 minutes

42. 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.

43. Which action best supports safe management of minimum safe altitude?

- a) Calculate it before flight and update for route changes.
- 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.

44. The virtual rotation axis of a rotor is...

- 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

45. A delta-three hinge is used to allow...

- a) For a decreased pitch angle at an upwards flapping blade
- b) The advancing blade to flap up about the hinge
- c) The advancing blade to lead about the hinge
- d) The advancing blade to drag about the hinge

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46. 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.

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

- a) Clear the taxiway / runway
- b) Land at this airport and proceed to apron
- c) Return to starting point
- d) Stop

48. Which statement about threat and error management is correct?

- a) It is used only by air traffic control.
- b) It aims to anticipate threats, trap errors and manage undesired aircraft states.
- c) It is a maintenance inspection system.
- d) It applies only to commercial multi-crew operations.

49. 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.

50. 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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51. The pilot wants to refuel the helicopter after a cold night early in the morning. What needs to be checked before starting the engine?

- a) VHF communication for transmission
- b) Carburettor heat for function
- c) Left seat controls for damage and tight fit
- d) Fuel for water content and impurities

52. What is the correct way to transmit the call sign HB-YKM?

- a) Hotel Bravo Yuliett Kilo Mikro
- b) Home Bravo Yankee Kilo Mikro
- c) Hotel Bravo Yankee Kilo Mike
- d) Home Bravo Yuliett Kilo Mike

53. Which statement about ground effect is correct?

- a) It reduces induced flow and power required when hovering close to the surface.
- b) It increases power required compared with OGE hover.
- c) It is strongest at high altitude cruise.
- d) It affects only fixed-wing aircraft.

54. A heading of 285 degrees is correctly transmitted as...

- a) Two eight five.
- b) Two hundred eight five
- c) Two hundred eighty-five.
- d) Two eight five hundred.

55. Which statement about dehydration is correct?

- a) It improves G tolerance.
- b) It is prevented by avoiding all fluids.
- c) It can reduce concentration and increase fatigue.
- d) It affects only passengers.

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56. Which statement about rotor downwash is correct?

- a) It is harmless below idle power.
- b) It affects only the pilot.
- c) It can endanger people, objects and loose material near the helicopter.
- d) It is eliminated by using QNH.

57. 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.

58. During hover flight, the induced airflow velocity...

- a) Is equal above and below the rotor
- b) Increases further having passed the rotor
- c) Remains constant after having passed the rotor
- d) Decreases after having passed the rotor

59. How does air temperature change in ISA from MSL to approximately 10,000 m altitude?

- a) From +30°C down to -40°C
- b) From +20°C down to -40°C
- c) From +15°C down to about -50°C
- d) From -15°C up to +50°C

60. What factor may affect the top of cumulus clouds?

- a) The presence of an inversion layer
- b) Relative humidity
- c) The absolute humidity
- d) The spread

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61. Which statement about engine fire on the ground is correct?

- a) Take off immediately to improve cooling.
- b) Shut down and evacuate according to the checklist if required.
- c) Open fuel valves fully.
- d) Continue taxi to save time.

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

- 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

63. The rotor blade shape takes effect on the...

- a) Lift distribution
- b) Rotor head used
- c) Notch sensitivity
- d) Structural take-off mass

64. What information is broadcasted on a VOLMET frequency?

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

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

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66. 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.

67. Which phrase is used by a pilot when he wants to fly through controlled airspace?

- a) Would like
- b) Want
- c) Request
- d) Apply

68. What should be considered regarding a scheduled flight over water, when land cannot be reached in case of an emergency landing?

- a) The flight plan has to contain the exact waypoints
- b) Contact to the nearest ATC shall consist during the whole flight
- c) Transponder code 7600 has to be set during the whole flight
- d) For all passengers there must be life jackets or lifeboats present

69. 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

70. What is the subject of ICAO Annex 1?

- a) Flight crew licensing
- b) Rules of the air
- c) Air traffic services
- d) Operation of aircraft

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Response Scheme

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

01: **C**

02: **A**

03: **B**

04: **B**

05: **C**

06: **A**

07: **B**

08: **C**

09: **A**

10: **B**

11: **B**

12: **D**

13: **D**

14: **D**

15: **C**

16: **C**

17: **B**

18: **B**

19: **A**

20: **B**

21: **C**

22: **B**

23: **A**

24: **B**

25: **C**

26: **B**

27: **C**

28: **C**

29: **B**

30: **D**

31: **C**

32: **A**

33: **C**

34: **C**

35: **A**

36: **A**

37: **B**

38: **A**

39: **B**

40: **B**

41: **A**

42: **A**

43: **A**

44: **C**

45: **A**

46: **A**

47: **D**

48: **B**

49: **D**

50: **C**

51: **D**

52: **C**

53: **A**

54: **A**

55: **C**

56: **C**

57: **D**

58: **B**

59: **C**

60: **A**

61: **B**

62: **D**

63: **A**

64: **D**

65: **C**

66: **C**

67: **C**

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: _____		