

Exam simulation

PPL(H) - Private Pilot License - Principles of Flight (Helicopter)



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STUDENT NAME:

DATE AND TIME:

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

- 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) centre
- d) How to read an emergency checklist, how to cut the engine, telephone number of the home airport

02. For a given fuel load, if the helicopter mass is increased...

- a) The normal fuel burn will be increased.
- b) The power required will be unchanged.
- c) The maximum range will be decreased.
- d) The parasite drag will be unchanged.

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

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

04. True course is 120° and magnetic variation is 5° E. What is the magnetic course?

- a) 125°
- b) 105°
- c) 115°
- d) 295°

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05. A flight plan has been filed for a flight departing at an uncontrolled aerodrome. When has the actual take-off time been transmitted to ATC?

- a) At deviation from expected off-block time by more than 15 min.
- b) Immediately after take-off.
- c) When landing is assured.
- d) Upon request from ATC.

06. The ground effect is noticeable by...

- a) Strong vertical oscillations
- b) Strong horizontal vibrations
- c) Larger power requirements
- d) Lower power requirements

07. Which section of the flight manual describes the centre of gravity limitations of a helicopter?

- a) Limitations
- b) Normal procedures
- c) Performance
- d) Supplements

08. The connection between middle ear and nose and throat region is called...

- a) Eardrum
- b) Eustachian tube
- c) Inner ear
- d) Cochlea

09. Regarding the communication model, how can the use of the same code during radio communication be ensured?

- a) By a particular frequency allocation
- b) By the use of radio phraseology
- c) By using radios certified for aviation use only
- d) By the use of proper headsets

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10. Which is the colour of runway end lights?

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

11. Which human-factor point is most relevant? A pilot uses cabin heat and later develops headache, nausea and reduced concentration.

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

12. The planned distance is 72 NM and groundspeed is 96 kt. What is the approximate flight time?

- a) 45 minutes
- b) 37 minutes
- c) 55 minutes
- d) 63 minutes

13. Which action best supports safe management of shower activity?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Keep separation from heavy showers and CB.
- d) Ignore it when the helicopter has sufficient fuel.

14. Why is approach briefing important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It reduces workload and clarifies wind, obstacles and go-around plan.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

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15. Which statement about loose objects in the cabin is correct?

- a) They are harmless in hover.
- b) They should be secured because they can interfere with controls or injure occupants.
- c) They improve balance automatically.
- d) They may be placed near pedals.

16. Which statement about startle effect is correct?

- a) It can delay or degrade the initial response to an unexpected event.
- b) It always improves reaction quality.
- c) It affects only student pilots.
- d) It replaces checklist discipline.

17. After lift-off, a much stronger than expected airspeed increase is experienced during the initial climb. What may be expected if the aircraft has 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

18. Which area is suitable for an off-field landing?

- a) Glade with long dry grass
- b) Sports area in a village
- c) Harvested cornfield
- d) Plowed field

19. 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

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20. 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.

21. Two aircraft are flying on crossing tracks. Which one has to divert?

- a) The aircraft which flies from left to right has the right of priority
- b) The aircraft which flies from right to left has the right of priority
- c) Both have to divert to the left
- d) Both have to divert to the right

22. Which statement about passenger briefing is correct?

- a) It should include seat belts, doors, emergency exits and relevant safety actions.
- b) It is required only for commercial flights.
- c) It may be omitted for short flights.
- d) It is replaced by the weather briefing.

23. Which statement about a Certificate of Airworthiness is correct?

- a) It is the operator's insurance policy.
- b) It confirms that the aircraft conforms to an approved airworthiness standard.
- c) It is issued by ATC before each flight.
- d) It replaces the journey log.

24. A helicopter with a rotor turning in an anti-clockwise direction seen from above, hovers sideways to the right. What is the azimuth angle where the main rotor blades have the biggest pitch angle?

- a) 270°
- b) 180°
- c) 90°
- d) 0°

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25. According to ICAO Annex 14, which is the colour marking of a runway?

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

26. Which action best supports safe management of checkpoint selection?

- a) Choose distinctive, reachable features before departure.
- 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.

27. Why is a helicopter's climb initially accelerated after an increase of the pitch angle?

- a) The larger pitch angle causes a decrease and a compression of the airflow until the climb rate corresponds to the induced velocity through the main rotor disc
- b) The inertia of the air increases the effective angle of attack temporarily until an additional component of the climb rate reduces the effective angle of attack again
- c) The initially high airflow increases the rotor thrust until the lower air density reduces the rotor thrust again
- d) The conversion of energetic air into kinetic rotor energy decreases continuously with increasing density altitude

28. 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

29. 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

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

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

31. An aircraft cruises on a heading of 180° with a true airspeed of 100 kt. The wind comes from 180° with 30 kt. Neglecting instrument and position errors, which will be the approximate reading of the airspeed indicator?

- a) 100 kt
- b) 70 kt
- c) 30 kt
- d) 130 kt

32. What shall be considered before terminating a turn in an autorotation?

- a) The Coriolis force causes an increase in the main rotor rpm
- b) The pitch angle must be decreased by using the collective pitch lever again
- c) The decreasing gravity relieves the main rotor and the helicopter cabin
- d) The flight velocity shall be increased to obtain all the kinetic energy

33. When should turns at low altitudes above villages be avoided with regard to noise abatement procedures?

- a) In horizontal flight
- b) In climb
- c) In descent
- d) During the approach

34. Which statement about a position report is correct?

- a) It should include passenger nationality.
- b) It replaces lookout.
- c) It is used only after landing.
- d) It should include relevant position, altitude and intentions where required.

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35. 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.

36. Which item from a ground station is normally acknowledged rather than read back verbatim?

- a) Taxi instructions
- b) Altimeter setting
- c) Heading
- d) Traffic information

37. Why is battery condition 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 starting capability and emergency electrical endurance.

38. How does inflowing cold air affect the shape and vertical distance between pressure layers?

- a) Increase in vertical distance, lowering in height (low pressure)
- b) Decreasing vertical distance, raise in height (high pressure)
- c) Decrease in vertical distance, lowering in height (low pressure)
- d) Increasing vertical distance, raise in height (high pressure)

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

- 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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40. Which abbreviation is used for the term "abeam"?

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

41. The total weight of an aircraft is acting vertically through the...

- a) Centre of gravity.
- b) Centre of pressure.
- c) Neutral point.
- d) Stagnation point.

42. In which outside air temperature is icing most likely?

- a) Between -15°C and 0°C
- b) Between -5°C and $+20^{\circ}\text{C}$
- c) Between -20°C and $+5^{\circ}\text{C}$
- d) Between -10°C and $+10^{\circ}\text{C}$

43. Weather and operational information about the destination aerodrome can be obtained during the flight by...

- a) VOLMET
- b) SIGMET.
- c) ATIS.
- d) PIREP.

44. 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.

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45. Which statement about passenger carrying recency is correct?

- a) It is needed only for night flights.
- b) It can be replaced by holding a radio licence.
- c) It applies only to commercial helicopter transport.
- d) The pilot must have completed the required recent take-offs and landings before carrying passengers.

46. 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

47. How can you obtain meteorological information concerning airports during a crosscountry flight?

- a) VOLMET
- b) METAR
- c) AIRMET
- d) GAMET

48. Which action best supports safe management of fuel checkpoint monitoring?

- a) Check fuel remaining at planned waypoints.
- 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.

49. True course is 190° and magnetic variation is 8° E. What is the magnetic course?

- a) 198°
- b) 192°
- c) 172°
- d) 182°

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50. An ATIS is valid for...

- a) 45 minutes
- b) 10 minutes
- c) 30 minutes
- d) 60 minutes

51. Which statement about a Transponder Mandatory Zone is correct?

- a) The aircraft must carry and operate the required transponder equipment.
- b) It replaces the need for lookout.
- c) It is entered by switching the radio off.
- d) It is used only inside Class A airspace.

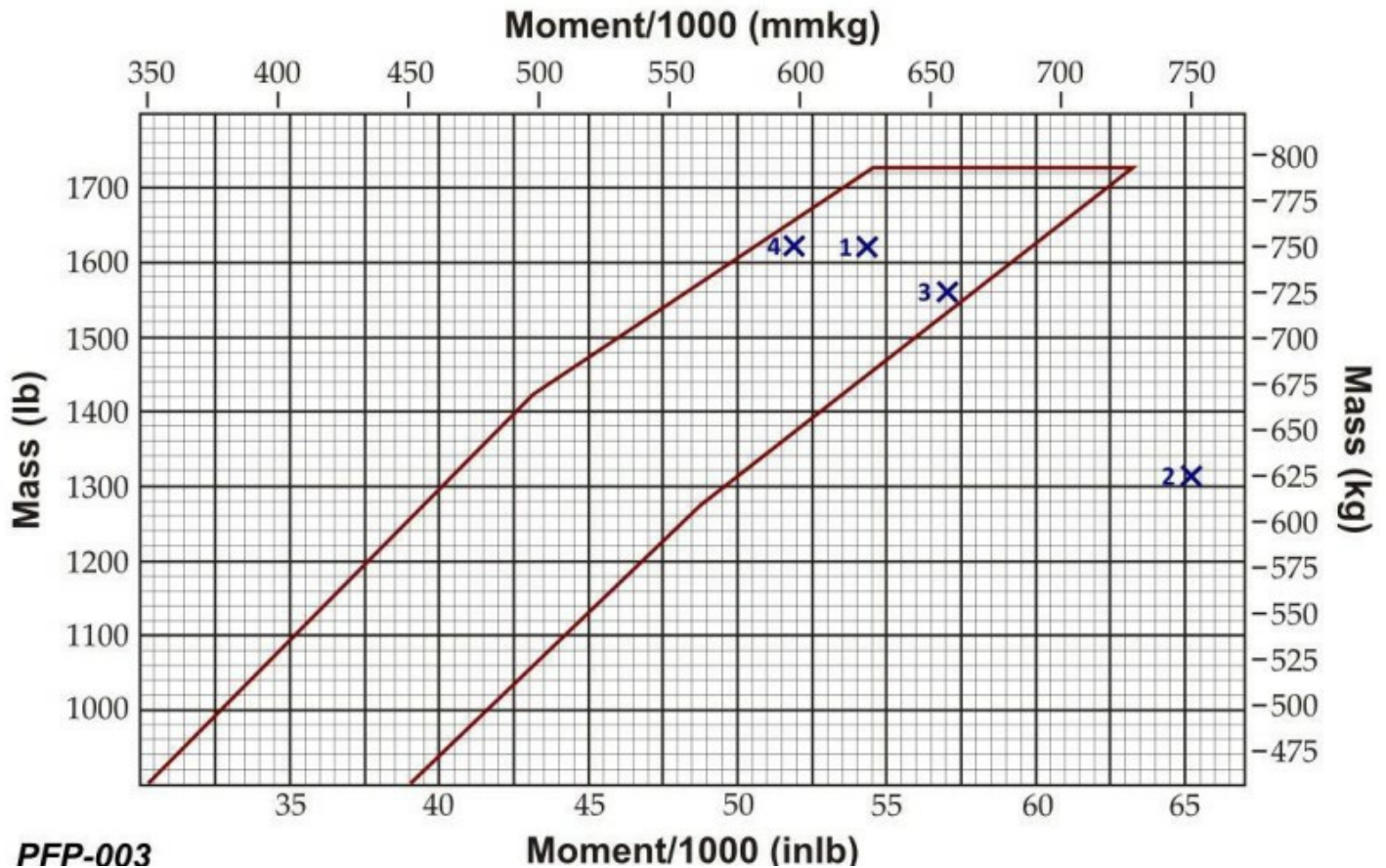
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52. For the purpose of a flight preparation, the pilot calculates a total take-off mass of 750 kg and a total moment of 625 mmkg. Which cross marks the centre of gravity (CG)? Use figure (PFP-003)



- a) 1
b) 3
c) 4
d) 2

53. 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

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54. Why is chart scale 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 affects distance measurement accuracy.
- d) It is replaced by passenger preference.

55. Which movement is caused by the Coriolis effect on the advancing rotor blade?

- a) Mass movement outwards
- b) Drag movement forwards
- c) Tilt movement backwards
- d) Flapping downwards

56. What happens to thrust and tangential force if the rotor RPM decreases by about 10 % in cruise flight?

- a) The thrust and the tangential force decrease
- b) The thrust and the tangential force increase
- c) The thrust decreases and the tangential force remains constant
- d) The thrust remains constant and the tangential force increases

57. With respect to aircraft accident and incident investigation, what are the three categories regarding aircraft occurrences?

- a) Incident Serious incident Accident
- b) Event Serious event Accident
- c) Happening Event Serious event
- d) Event Crash Disaster

58. Which Q-code is used for the true bearing from the station?

- a) QDR
- b) QDM
- c) QTE
- d) QUJ

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59. A pilot receives a QDR of 315° from the VDF ground station. Where is the aircraft located in relation to the ground station?

- a) Southeast
- b) Southwest
- c) Northwest
- d) Northeast

60. In which situations should a pilot use blind transmissions?

- a) When the traffic situation at an airport allows the transmission of information which does not need to be acknowledged by the ground station
- b) When a pilot has flown into cloud or fog unintentionally and therefore would like to request navigational assistance from a ground unit
- c) When no radio communication can be established with the appropriate aeronautical station, but when evidence exists that transmissions are received at that ground unit
- d) When a transmission containing important navigational or technical information is to be sent to several stations at the same time

61. Which action best supports safe management of fire after landing?

- a) Shut down and evacuate according to procedure.
- 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.

62. 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

63. Why is landing performance margin important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It confirms that the selected site is suitable for the planned arrival.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

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64. Which statement about engine fire in flight is correct?

- a) Ignore it if temperatures remain normal.
- b) Climb to reduce airflow.
- c) Follow the emergency checklist and land as soon as appropriate.
- d) Open cabin heat fully.

65. Why is convective SIGMET information important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It can indicate hazardous thunderstorms or severe turbulence.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

66. What can be expected for the prevailing wind with isobars on a surface weather chart showing large distances?

- a) Strong pressure gradients resulting in strong prevailing wind
- b) Strong pressure gradients resulting in low prevailing wind
- c) Low pressure gradients resulting in strong prevailing wind
- d) Low pressure gradients resulting in low prevailing wind

67. What should be the first action in case of a cable fire during a flight?

- a) Open the windows
- b) Turn off the master switch
- c) Close the fuel valve
- d) Open cabin ventilation

68. Which action best supports safe management of reduced visibility?

- a) Delay the decision until after take-off.
- b) Delay, divert or remain clear if below minima or personal limits.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

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69. What does QIJ represent in radio navigation phraseology?

- a) true bearing to the station.
- b) Distance from the station.
- c) Pressure altitude above the station.
- d) Cloud base at the station.

70. Why is wind component 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 affects groundspeed and performance margins.
- d) It is replaced by passenger preference.

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Response Scheme

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

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

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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: _____		