

Exam simulation

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



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STUDENT NAME:

DATE AND TIME:

01. Which of the following symptoms may indicate hypoxia?

- a) Blue discolouration of lips and fingernails
- b) Muscle cramps in the upper body area
- c) Blue marks all over the body
- d) Joint pain in knees and feet

02. A VOR radial corresponds to the...

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

03. What is the correct way of establishing radio communication between D-EAZF and Dusseldorf Tower?

- a) DEAZF is calling Dusseldorf Tower
- b) Dusseldorf Tower over
- c) Dusseldorf Tower D-EAZF
- d) Tower from D-EAZF

04. Distance to the next waypoint is 72 NM and groundspeed is 96 kt. What is the estimated time en route?

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

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05. 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

06. 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.

07. 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.

08. Which statement about an engine failure in hover is correct?

- a) Close the throttle and raise collective fully in every case.
- b) Apply the approved immediate actions for height and speed.
- c) Apply rotor brake immediately.
- d) Wait for ATC instructions before acting.

09. Which statement about standard phraseology is correct?

- a) It is used only in written exams.
- b) It reduces ambiguity and communication errors.
- c) It should be replaced by slang when workload is high.
- d) It is unnecessary in uncontrolled airspace.

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10. A gyro which is rotating in space responds to forces being applied to it by an evasive movement...

- a) At an angle of 45° to the force being applied.
- b) In a northern direction.
- c) At an angle of 90° to the force being applied.
- d) At an angle of 180° to the force being applied.

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11. What is the distance from Neustadt (EDAN) (53°22'N, 011°37'E) to Uelzen (EDVU) (52°59'N, 10°28'E)? Use figure (NAV-031)



- a) 78 NM
- b) 46 NM
- c) 46 km
- d) 78 km

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12. What aerodynamic effect is most relevant? Rotor RPM starts to decay in autorotation.

- a) The altimeter setting becomes invalid.
- b) The magnetic compass becomes the primary lift source.
- c) collective should be managed to recover RPM.
- d) The aircraft mass automatically decreases.

13. What behaviour is shown by a rotating gyro in space?

- a) It moves in accordance with the body surrounding it
- b) It swings from east to west like a pendulum
- c) It moves in circles with a steadily decreasing radius
- d) It tends to maintain its position in space

14. What is the meaning of a continuous red light to an aircraft in flight?

- a) Cleared for take-off.
- b) Make a right-hand circuit.
- c) Give way to other aircraft and continue circling.
- d) Squawk 7600 immediately.

15. Which approximate, geometrical form describes the shape of the Earth best for navigation systems?

- a) Ellipsoid
- b) Sphere of ecliptical shape
- c) Flat plate
- d) Perfect sphere

16. What is the reason for static dischargers on aircraft?

- a) To improve the quality of radio transmission in high altitudes
- b) To discharge static charging during flight
- c) To ensure grounding during refueling
- d) To eliminate electrical interferences during intensive radio traffic

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17. The electrical power supply in a helicopter is normally provided by: 1. Battery 2. Generator 3. Relay 4. Circuit breaker

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

18. Which value can the pilot derive from the tachometre?

- a) Airspeed of the helicopter
- b) Crankshaft or main rotor revolutions per minute
- c) Vertical speed of the helicopter
- d) Engine performance and rotor performance

19. What is the minimum flight visibility in airspace "C" below FL 100 for an aircraft operating under VFR?

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

20. Visual illusions are mostly caused by...

- a) Colour blindness.
- b) Binocular vision.
- c) Misinterpretation of the brain.
- d) Rapid eye movements.

21. Which statement about an Airworthiness Review Certificate is correct?

- a) It gives an automatic clearance to fly in controlled airspace.
- b) It is a radio station licence.
- c) It supports the continuing airworthiness status of the aircraft.
- d) It replaces the pilot's licence.

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22. What is the safest operational response? During final approach, dust begins to obscure the landing reference.

- a) Continue as planned because helicopters can land anywhere.
- b) Delay all action until reaching destination.
- c) Initiate the planned rejected landing or go-around if visual reference is becoming inadequate.
- d) Ask passengers to decide the next action.

23. Which action best supports safe management of emergency landing briefing?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Ignore it when the helicopter has sufficient fuel.
- d) Give clear instructions when time permits.

24. Which answer is correct concerning stress?

- a) Everybody reacts to stress in the same manner
- b) Stress can occur if there seems to be no solution for a given problem
- c) Training and experience have no influence on the occurrence of stress
- d) Stress and its different symptoms are irrelevant for flight safety

25. The angle between the true course and the true heading is called...

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

26. 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.

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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. 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.

29. What is the meaning of the radiotelephony phrase "Stand by"?

- a) No.
- b) Wait and I will call you.
- c) Disregard my last transmission.
- d) Emergency traffic only.

30. What phrase is used by a pilot if a transmission is to be answered with "yes"?

- a) Affirmative
- b) Yes
- c) Affirm
- d) Roger

31. 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

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32. What weather phenomena have to be expected around an upper-level trough?

- a) Calm wind, forming of shallow cumulus clouds
- b) Development of showers and thunderstorms (Cb)
- c) Formation of high stratus clouds, ground-covering cloud bases
- d) Calm weather, formation of lifted fog layers

33. What force affects the braking torque of the rotor in cruise?

- a) Inclined forward lift
- b) Upward directional rotor thrust
- c) Inclined forward drag force
- d) Inclined rearward tangential force

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

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

35. Which statement about supercooled water droplets is correct?

- a) They are ice crystals that cannot adhere.
- b) They occur only at +25°C.
- c) They prevent airframe icing.
- d) They can freeze on impact with the aircraft.

36. What is the meaning of a steady green light signal at a controlled aerodrome directed to an aircraft in flight?

- a) Return for landing, followed by steady green at the appropriate time
- b) Airport unsafe, do not land
- c) Cleared to land
- d) Give way to other aircraft and continue circling

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37. 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.

38. Calculated take-off mass = 2300 lbs, calculated CG = 95.75 in, fuel burn = 170 lbs on station 87.00 in. Where is the CG situated after the landing?

- a) 96.57 in
- b) 96.45 in
- c) 97.39 in
- d) 94.11 in

39. The power output of a piston engine is limited by...

- a) Exhaust system.
- b) Main rotor gearbox.
- c) Crankcase.
- d) Centrifugal clutch.

40. 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.

41. 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).

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42. Which statement about track is correct?

- a) It is the path of the aircraft over the ground.
- b) It is always equal to heading.
- c) It is the same as indicated airspeed.
- d) It is a pressure setting.

43. What temperatures are most dangerous with respect to airframe icing?

- a) 0° to -12° C
- b) +20° to -5° C
- c) +5° to -10° C
- d) -20° to -40° C

44. Which action best supports safe management of engine cooling airflow?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Monitor temperatures and avoid prolonged operation outside limits.
- d) Ignore it when the helicopter has sufficient fuel.

45. What aerodynamic effect is most relevant? A strong left crosswind affects a helicopter susceptible to LTE.

- a) yaw control margin may be reduced.
- b) The altimeter setting becomes invalid.
- c) The magnetic compass becomes the primary lift source.
- d) The aircraft mass automatically decreases.

46. The movement of air flowing apart is called...

- a) Subsidence.
- b) Concordence.
- c) Convergence.
- d) Divergence.

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47. What is the meaning of the abbreviation "VMC"?

- a) Variable meteorological conditions
- b) Visual meteorological conditions
- c) Visual flight rules
- d) Instrument flight conditions

48. Basic empty mass is 700 kg, occupants are 65 kg and 72 kg, usable fuel for departure is 40 kg and MTOM is 880 kg. Is the mass within limits?

- a) Yes, because fuel is not included in take-off mass.
- b) No, because passenger mass is never included in take-off mass.
- c) The result cannot be assessed because empty mass is irrelevant.
- d) Yes, the calculated take-off mass is within the limit.

49. What danger arises for a helicopter during flight through a ground inversion in winter?

- a) Cloud formation above the inversion
- b) Baffling wind conditions
- c) Electrostatic charges
- d) Ice formation below the inversion

50. If the critical angle of attack is exceeded, the...

- a) Transition point starts moving towards the airflow direction
- b) Boundary layer on the upper side of the rotor blade begins to separate
- c) Boundary layer on the lower side of the rotor blade begins to separate
- d) Laminar boundary layer turns into a turbulent boundary layer

51. 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.

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52. In case of an emergency ditching, the life vests have to be inflated...

- a) Before disembarking the aircraft.
- b) After disembarking the aircraft at a safe distance of about 10 m.
- c) During disembarking the aircraft.
- d) After disembarking the aircraft.

53. Which action best supports safe management of temperature correction?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Use the actual or forecast temperature for performance planning.
- d) Ignore it when the helicopter has sufficient fuel.

54. What needs to be observed in conjunction with flying above mountainous terrain?

- a) Unexpected changes in weather and turbulence
- b) Unexpected overspeed faults and vibrations
- c) Carburettor icing in piston engines
- d) Icing conditions over the predicted freezing level

55. Which statement about useful load is correct?

- a) It is the difference between maximum allowable mass and basic empty mass.
- b) It is the mass of unusable fuel only.
- c) It is the same as centre of gravity arm.
- d) It is always zero in helicopters.

56. 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.

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57. What document contains information about the fuel consumption?

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

58. Which altitude marks the lower limit where the body is unable to completely compensate the effects of the low atmospheric pressure?

- a) 12000 feet
- b) 7000 feet
- c) 5000 feet
- d) 22000 feet

59. Which action best supports safe management of passenger mass accuracy?

- a) Use realistic masses and remain within approved limits.
- 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.

60. The height of the tropopause of the International Standard Atmosphere (ISA) is at...

- a) 48000 ft.
- b) 5500 ft.
- c) 36000 ft.
- d) 11000 ft.

61. 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

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62. 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.

63. Why are the stability criteria of a helicopter very important?

- a) Low stability reduces the available control forces
- b) High stability prevents low load factors
- c) A lack of stability may lead to loss of control
- d) Large stability increases the maximum take-off mass

64. Which statement about the vestibular system is correct?

- a) It always gives reliable attitude information in IMC.
- b) It can create misleading sensations during acceleration or turns.
- c) It replaces the attitude indicator.
- d) It is unaffected by head movement.

65. Magnetic heading is 210° and compass deviation is 4° W. What compass heading should be flown?

- a) 206°
- b) 229°
- c) 199°
- d) 214°

66. 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

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67. 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.

68. Which action best supports safe management of hydration?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Drink appropriate fluids before and during longer operations.
- d) Ignore it when the helicopter has sufficient fuel.

69. What condition may prevent the formation of "radiation fog"?

- a) Overcast cloud cover
- b) Low spread
- c) Calm wind
- d) Clear night, no clouds

70. 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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Response Scheme

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

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