Exam simulation

PPL(H) - Private Pilot Licence (Helicopter) - Human Performance and Limitations

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STUDENT NAME:	DATE AND TIME:

01. What does a cloud coverage of "SCT" mean in a METAR weather report?

a) 5 to 7 eighths

b) 3 to 4 eighths

c) 8 eighths

d) 1 to 2 eighths

02. What should a PPL(H) pilot do when operating close to 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.

03. What kind of information should be included in an urgency message?

a) Intended routing, important information for support, intentions of the pilot, departure aerodrome, destination aerodrome, heading and altitude

b) Nature of problem or observation, important information for support, intentions of the pilot, information about position, heading and altitude

c) Nature of problem or observation, important information for support, departure aerodrome, information about position, heading and altitude

d) Intended routing, important information for support, intentions of the pilot, information about position, departure aerodrome, heading and altitude

04. What action is necessary in a modern helicopter during the transition to a horizontal turn?

a) A control column movement forward or raising the collective

b) Open the throttle in a helicopter with a rotor turning in an anti-clockwise direction seen from above

c) Open the throttle in a helicopter with a rotor turning in a clockwise direction seen from above

d) A control column movement backward or raising the collective

05. A pilot receives a QDR of 135° from the VDF ground station. Where is the aircraft located in relation to the ground station?

a) Southwest

b) Northeast

c) Northwest

d) Southeast

06. A helicopter burns 33 l/h. Planned flight time is 75 minutes and required reserve is 20 l. What minimum fuel should be planned?

a) 42 l

b) 52 l

c) 70 l

d) 62 l

07. Who provides search and rescue service?

a) International approved organisations

b) Both military and civil organisations

c) Only military organisations

d) Only civil organisations

08. 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.

09. Lower-than-standard temperature may lead to...

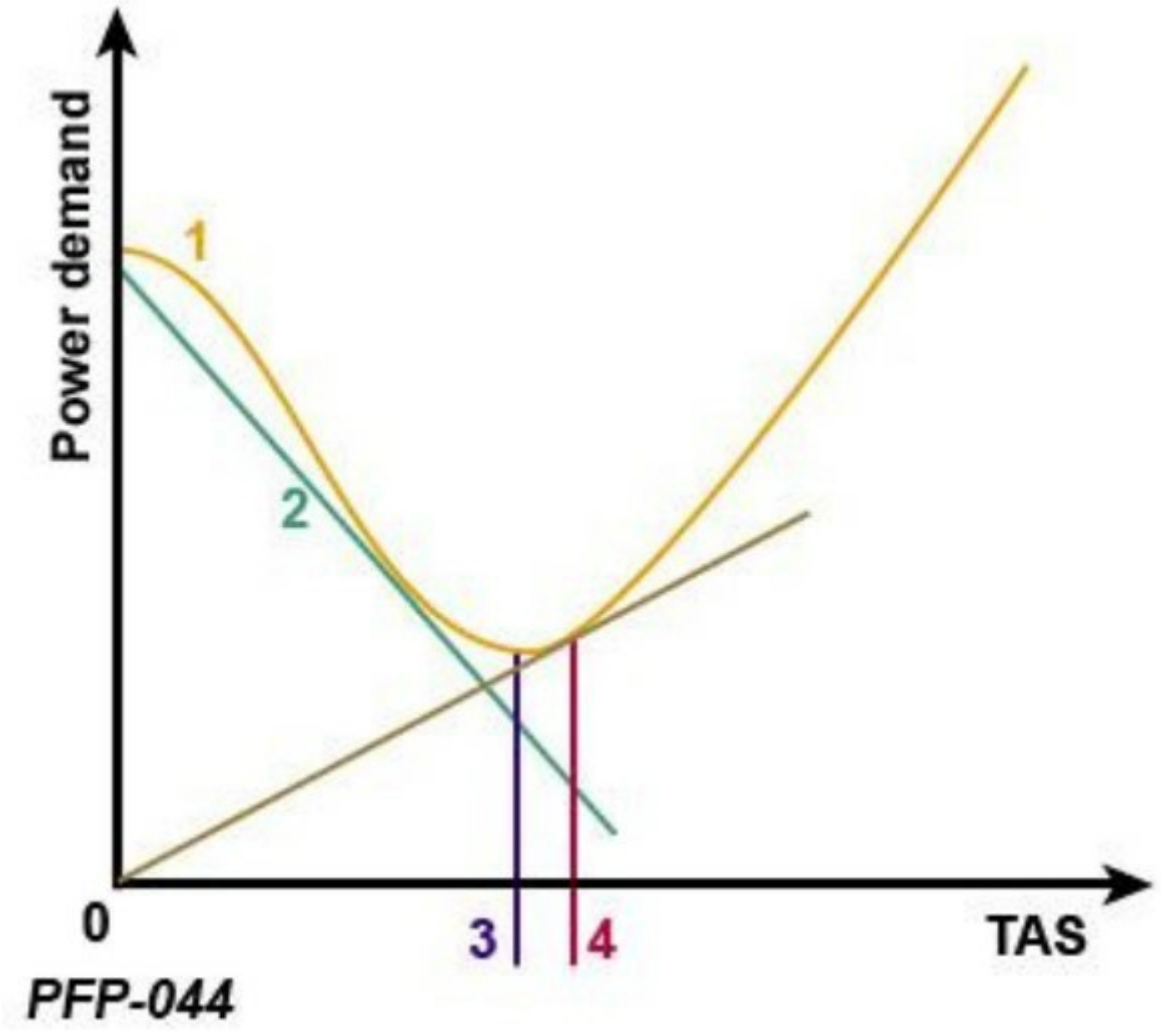
a) An altitude indication which is too high.

b) A correct altitude indication as long as the altimeter subscale is set to correct for non-standard temperature.

c) A blockage of the Pitot tube by ice, freezing the altimeter indication to its present value.

d) An altitude indication which is too low.

10. Which point indicates the speed for maximum endurance? Use figure (PFP-044)



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

11. Why is GNSS cross-checking 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 helps detect database, setup or interpretation errors.
d) It is replaced by passenger preference.

12. Which statement about collective pitch is correct?

a) It changes only compass heading.

b) It tilts the rotor disc without changing blade pitch.

c) It controls radio volume.

d) It changes the pitch of all main rotor blades together.

13. Given the following information, what is the true altitude? (rounded to the nearest 50 ft) QNH: 983 hPa Altitude: FL 85 Outside Air Temperature: ISA - 10°

a) 7600 ft

b) 7300 ft

c) 7900 ft

d) 9400 ft

14. 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°

15. Which statement about torque reaction is correct?

a) The fuselage tends to rotate opposite to main rotor torque unless balanced.

b) It is a GPS position error.

c) It affects only gliders.

d) It is eliminated by changing QNH.

16. Which statement about hydraulic failure is correct?

a) Expect possible increased control forces and follow the flight manual.

b) The helicopter becomes uncontrollable in every case.

c) It improves control sensitivity.

d) It requires changing QNH.

17. Measured pressure distribution in MSL and corresponding frontal systems are displayed by the...

a) Hypsometric chart

b) Prognostic chart.

c) Significant Weather Chart (SWC).

d) Surface weather chart.

18. 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

19. An aircraft is flying at FL 75 with an outside air temperature (OAT) of -9°C. The QNH altitude is 6500 ft. The true altitude equals...

a) 6750 ft.

b) 6500 ft.

c) 6250 ft.

d) 7000 ft.

20. SIGMET warnings are issued for...

a) Specific routings.

b) Countries.

c) Airports.

d) FIRs / UIRs.

21. Which statement about Special VFR is correct?

a) It is a replacement for IFR outside controlled airspace.

b) It is always available on pilot request.

c) It removes the requirement to remain clear of cloud where applicable.

d) It is a controlled-airspace procedure subject to ATC clearance and prescribed conditions.

22. What weather conditions can be expected during "Foehn" on the windward side of a mountain range?

a) Layered clouds, mountains obscured, poor visibility, moderate or heavy rain
b) Scattered cumulus clouds with showers and thunderstorms
c) Calm wind and forming of high stratus clouds (high fog)
d) Dissipating clouds with unusual warming, accompanied by strong, gusty winds

23. Which statement about centre of gravity forward of limit is correct?

a) It can increase control forces and reduce the ability to flare.
b) It always improves hover performance.
c) It reduces all power required.
d) It removes the need for a load sheet.

24. What does a cloud coverage of "BKN" mean in a METAR weather report?

a) 3 to 4 eighths
b) 1 to 2 eighths
c) 8 eighths
d) 5 to 7 eighths

25. Heavy downdrafts and strong wind shear close to the ground can be expected...

a) During approach to an aerodrome at the coast with a strong sea breeze.
b) During warm summer days with high, flatted Cu clouds.
c) Near the rainfall areas of heavy showers or thunderstorms
d) During cold, clear nights with the formation of radiation fog.

26. 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.

27. What needs to be observed in conjunction with a temporary loss of tail rotor efficiency in a stationary hover?

a) Vortex ring state of the tail rotor

b) Rotating movement in the main rotor direction

c) Loss of the main rotor thrust

d) Mechanical blockage of the control

28. Urgency messages are defined as...

a) Messages concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.

b) Messages concerning urgent spare parts which are needed for a continuation of flight and which need to be ordered in advance.

c) Information concerning the apron personell and which imply an imminent danger to landing aircraft.

d) Messages concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.

29. 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

30. Which action best supports safe management of seat and harness locking?

a) Delay the decision until after take-off.

b) Check adjustment and locking before start.

c) Use the item only if requested by passengers.

d) Ignore it when the helicopter has sufficient fuel.

31. With only a slight crosswind, what is the danger at take-off after the departure of a heavy aircraft?

a) Wake turbulence rotate faster and higher.

b) Wake turbulence twisting transverse to the runway.

c) Wake turbulence is amplified and distorted.

d) Wake turbulence on or near the runway.

32. 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

33. Which abbreviation is used for the term "visual flight rules"?

a) VMC
b) VFR
c) VRU
d) VFS

34. Which statement about ICAO Annex 2 is correct?

a) It deals only with aircraft noise certification.
b) It is a maintenance release document.
c) It is the same as the flight manual.
d) It deals with rules of the air.

35. What has to be done before entering a TMZ?

a) Switch on the transponder, activate mode A, and squawk "IDENT"
b) Switch on the transponder and activate mode A and C or mode S
c) File a flight plan before the flight
d) Request a clearance before entering

36. A steel or lead rotor blade spar...

a) Prevents high-frequency vibrations to the main rotor system.
b) Improves the autorotation characteristics by increased inertia.
c) Is necessary for the connection to the main rotor head.
d) Holds loads of the uniform lift distribution.

37. What is the major task of a carburettor?

a) To provide additional fuel to cool the engine
b) To produce an ignitable air/fuel mixture
c) To pump fuel from the tanks into the cylinder
d) To control the aircraft's speed through the throttle valve

38. The power output of a turbine engine is limited by...

a) Auxiliary equipment rack and exhaust system in multi-shaft turbine engines.
b) Compressor RPM, turbine inlet temperature, and main rotor gearbox.
c) Fuel type, burn rate, and exhaust system.
d) Freewheel unit and main rotor gearbox in single-shaft turbine engines.

39. Which statement about profile drag is correct?

a) It is caused only by radio antennas.
b) It is associated with the rotor blade moving through the air.
c) It disappears when blade pitch increases.
d) It is unrelated to rotor speed.

40. What should a PPL(H) pilot do when operating close to a restricted area?

a) Assume it is inactive unless ATC calls first.
b) Switch off the transponder to reduce workload.
c) Ignore it when flying VFR below 1,000 ft AGL.
d) comply with the published restrictions before entry.

41. Which statement about the vertical speed indicator is correct?

a) It uses static pressure rate of change to indicate climb or descent.
b) It measures ground speed by GPS only.
c) It measures engine torque.
d) It indicates tail rotor thrust.

42. Why is baggage location important for a PPL(H) flight?

a) It is relevant only to airline transport operations.
b) It can affect longitudinal and lateral centre of gravity.
c) It can be ignored when the flight remains local.
d) It is replaced by passenger preference.

43. What information can be found in the ATIS, but not in a METAR?

a) Operational information such as runway in use and transition level
b) Information about current weather, for example types of precipitation
c) Approach information, such as ground visibility and cloud base
d) Information about mean wind speeds, maximum speeds in gusts if applicable

44. Which action best supports safe management of battery condition?

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) Check charge and indications before flight.

45. What is the purpose of engine oil in piston engine?

a) Cooling, lubrication and increasing engine performance.
b) Cooling, lubrication of the engine and disposal of fine abrasion.
c) For noise reduction and bearing of the propeller shaft.
d) Cooling of the engine and lubrication of propeller shaft.

46. Why do helicopters with a semi-rigid rotor system react slower than others?

a) The central flapping hinge does not transmit any moments
b) The missing lag hinges cause a rotor imbalance
c) The lowered attachment of the rotor blades allows a transmission of forces
d) The angled lag hinges prevent the transmission of aerodynamic forces on the helicopter frame

47. How many satellites are necessary for a precise and verified three-dimensional determination of the position?

a) Five
b) Four
c) Three
d) Two

48. During an approach the aircraft experiences wind shear with a decreasing headwind. If the pilot does not make any correction, how do the approach path and the indicated airspeed (IAS) change?

a) Path is lower, IAS increases
b) Path is higher, IAS increases
c) Path is higher, IAS decreases
d) Path is lower, IAS decreases

49. Which statement about checklist use is correct?

a) It should be avoided in abnormal situations.
b) It reduces the risk of omitted actions.
c) It replaces aircraft control.
d) It is only for student pilots.

50. What is the correct frequency for an initial distress message?

a) Current frequency
b) FIS frequency
c) Emergency frequency
d) Radar frequency

51. The "Certificate of Airworthiness" is issued by the state...

a) In which the airworthiness review is done.
b) In which the aircraft is constructed.
c) In which the aircraft is registered.
d) Of the residence of the owner.

52. Which statement about fuel contamination is correct?

a) It is detected only by the altimeter.
b) It is harmless in turbine engines.
c) It always improves fuel flow.
d) It may be detected by draining fuel samples before flight.

53. Up to which altitude is an overflight prohibited according to the NOTAM? Use figure (PFP-024)

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A4604/11 NOTAMN
Q)
EDWW/QROLP/IV/NBO/W/000/095/5155N01037E004
A) EDWW
B) 1111180800  C) 1111181200
E) OVERFLYING PROHIBITED FOR ALL TRAFFIC RADIUS
3.35NM CENTERED AROUND 515436N 0103725E DUE
TO DEMOLITION OF EXPLOSIVES AT ECKERTHAL,
(25NM S BRAUNSCHWEIG NDB BRU).
F) GND
G) 9500 FT AMSL
```

a) Height 9500 ft
b) Flight Level 95
c) Altitude 9500 ft MSL
d) Altitude 9500 m MSL

54. Urgency messages are messages...

a) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight.

b) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.

c) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.

d) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation.

55. 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.

56. What wind conditions can be expected in areas showing large distances between isobars?

a) Strong prevailing easterly winds with rapid backing

b) Formation of local wind systems with strong prevailing westerly winds

c) Variable winds, formation of local wind systems

d) Strong prevailing westerly winds with rapid veering

57. 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

58. The planned distance is 36 NM and groundspeed is 72 kt. What is the approximate flight time?

a) 22 minutes

b) 30 minutes

c) 40 minutes

d) 48 minutes

59. How should gusty wind be considered during helicopter performance planning?

a) It is ignored below 10 kt.
b) should be considered because control margins and approach stability can be affected.
c) It changes aircraft mass but not performance.
d) It removes the need to check the flight manual.

60. Which statement about a transponder is correct?

a) It measures wind direction.
b) It replies to secondary surveillance radar interrogations.
c) It stores engine oil.
d) It replaces the magnetic compass.

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

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

62. Which action best supports safe management of pre-flight document checks?

a) Review the required documents 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.

63. What is the correct way of acknowledging the instruction "Next report PAH"?

a) Roger
b) Report PAH
c) Wilco
d) Positive

64. 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.

65. 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.

66. What change of wind direction can be expected during the passage of a polar front low in Central Europe?

a) Backing wind during passage of the warm front, veering wind during passage of the cold front
b) Veering wind during passage of the warm front, backing wind during passage of the cold front
c) Backing wind during passage of the warm front, backing wind during passage of the cold front
d) Veering wind during passage of the warm front, veering wind during passage of the cold front

67. Which action best supports safe management of communication under stress?

a) Delay the decision until after take-off.
b) Use concise standard calls and ask for repetition when needed.
c) Use the item only if requested by passengers.
d) Ignore it when the helicopter has sufficient fuel.

68. Which statement about latitude is correct?

a) It is measured east or west of Greenwich.
b) It is measured north or south of the Equator.
c) It is the same as magnetic heading.
d) It is the angular distance from the local meridian to the aircraft heading.

69. Electronic devices on board an aircraft have influence on the...

a) Direct reading compass.

b) Airspeed indicator.

c) Artificial horizon.

d) Turn coordinator.

70. What aerodynamic effect is most relevant? The helicopter accelerates through effective translational lift.

a) less power may be required for the same lift.

b) The altimeter setting becomes invalid.

c) The magnetic compass becomes the primary lift source.

d) The aircraft mass automatically decreases.

Exam simulation

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Response Scheme

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

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

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