Exam simulation

PPL(H) - Private Pilot Licence (Helicopter) - Navigation

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STUDENT NAME:	DATE AND TIME:

01. A risk factor for decompression sickness is...

a) 100 % oxygen after decompression.
b) Sports.
c) Smoking.
d) Scuba diving prior to flight.

02. Given: TC: 179°; WCA: -12°; VAR: 004° E; DEV: +002° What are MH and MC?

a) MH: 167°. MC: 161°.
b) MH: 163°. MC: 175°.
c) MH: 163°. MC: 161°.
d) MH: 167°. MC: 175°.

03. Which hazard arises during a helicopter night flight in blowing snow?

a) Engine monitoring displays are scanned with increased attention
b) Anti-collision light and rotors can cause the "flicker vertigo"
c) High partial pressures in the human body can cause hyperventilation or autokinesis
d) High air pressure and low temperatures can clog the "eustachian tube"

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

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

05. What needs to be observed in particular when performing a slope landing?

a) Direction of rotation of the main rotor
b) Slipping of the helicopter
c) Width of the landing skids
d) Faulty navigation lights

06. 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

07. What is the gas composition of "air"?

a) Oxygen 21 % Water vapour 78 % Noble gases / carbon dioxide 1 %
b) Oxygen 21 % Nitrogen 78 % Noble gases / carbon dioxide 1 %
c) Oxygen 78 % Water vapour 21 % Nitrogen 1 %
d) Nitrogen 21 % Oxygen 78 % Noble gases / carbon dioxide 1 %

08. What is the safest operational response? The planned landing area has people close to the touchdown point.

a) Continue as planned because helicopters can land anywhere.
b) Do not land until the area is clear and safe.
c) Delay all action until reaching destination.
d) Ask passengers to decide the next action.

09. 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

10. Which statement about tailwind for landing is correct?

a) It increases groundspeed and can increase landing distance or reduce margins.
b) It always improves approach angle control.
c) It decreases groundspeed.
d) It is ignored for helicopter performance.

11. Why is alternate planning 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 gives a practical option if the destination becomes unsuitable.

12. What should a PPL(H) pilot do when planning to cross 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.

13. What is shown on the printed sign? Use figure (ALW-019)



a) Parking position A
b) Point A on a taxiway
c) Part A of the runway
d) Taxiway A

14. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?

a) Roger
b) Wilco
c) Squawk 4321, 131.325
d) Squawk 4321, wilco

15. What aerodynamic effect is most relevant? The pilot raises collective rapidly.

a) The altimeter setting becomes invalid.
b) The magnetic compass becomes the primary lift source.
c) torque and power required increase.
d) The aircraft mass automatically decreases.

16. Radio waves within the LF and MF range (e.g. NDB) travel as...

a) Space wave (quasi-optical)
b) Sky wave and as ground / surface wave.
c) Sky wave.
d) Ground / surface wave.

17. Given: QDM: 248° VAR: 10° W The QTE is...

a) 238°.
b) 258°.
c) 078°.
d) 058°.

18. 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.

19. Which statement about overtaking is correct?

a) The aircraft being overtaken must descend.
b) The overtaking aircraft must keep out of the way of the aircraft being overtaken.
c) The faster aircraft has priority.
d) The aircraft on the left always has priority.

20. The barometric altimeter indicates height above...

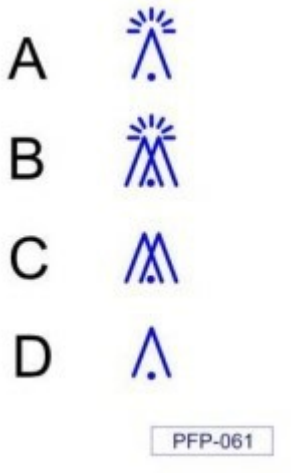
a) Mean sea level.

b) Standard pressure 1013.25 hPa.

c) Ground.

d) A selected reference pressure level.

21. (For this question, please use annex PFP-061) According to ICAO, what symbol indicates a group of unlighted obstacles?



a) D

b) C

c) A

d) B

22. 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.

23. 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.

24. Which statement about converging traffic at the same level is correct?

a) The aircraft on the right must always give way.
b) The aircraft with higher groundspeed has priority.
c) The aircraft that has the other on its right must give way.
d) The aircraft with a transponder has priority.

25. What is the advantage of a pushing tail rotor over a pulling tail rotor?

a) Gain of thrust by Coanda and Magnus effect due to the airflow around the tail boom
b) Effective airflow of tail rotor blades by using the downwash
c) Less thrust loss by free outflow of the accelerated air mass
d) Self-compensating anti-torque operation by using the downwash

26. What factors may indicate a tendency to fog formation?

a) Low spread, increasing temperature
b) Low pressure, increasing temperature
c) Strong winds, decreasing temperature
d) Low spread, decreasing temperature

27. In which way should a pilot confirm received light signals in flight?

a) Rock the wings (in the daytime)
b) Apply some changes of RPM
c) Apply some fast pitch changes
d) Apply some changes of the rudder

28. During hover flight (HOGE - out of ground effect) with maximum power, how does the pilot compensate for a loss of power resulting from the use of carburettor heat?

a) Enrich the mixture
b) Open the vents
c) Adjust the height in a hover
d) Turn on the electrical fuel pump

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

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

30. 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.

31. What is the correct way of using the aircraft call sign at first contact?

a) Using the first three characters only
b) Using the last two characters only
c) Using the first two characters only
d) Using all characters

32. Where are the two polar circles?

a) At a latitude of 20.5°S and 20.5°N
b) 23.5° north and south of the poles
c) 20.5° south of the poles
d) 23.5° north and south of the equator

33. Magnetic heading is 260° and compass deviation is 8° W. What compass heading should be flown?

a) 252°

b) 283°

c) 253°

d) 268°

34. What visual flight conditions can be expected after the passage of a cold front?

a) Poor visibility, formation of overcast or ground-covering stratus clouds, snow

b) Good visibility, formation of cumulus clouds with showers of rain or snow

c) Scattered cloud layers, visibility more than 5 km, formation of shallow cumulus clouds

d) Medium visibility with lowering cloud bases, onset of prolonged precipitation

35. The VFR semicircular rules are based on the...

a) Magnetic course (MC).

b) True heading (TH).

c) True course (TC).

d) Magnetic heading (MH).

36. 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.

37. What is a "PAPI" (Precision Approach Path Indicator)?

a) A visual aid that provides guidance information to help a pilot acquire and maintain the correct departure track when departing from an aerodrome or an airport

b) A visual aid that provides guidance information to help a tower controller acquire and maintain the correct approach to an aerodrome or an airport

c) An instrumental aid that provides guidance information to help a pilot acquire and maintain the correct approach to an aerodrome or an airport

d) A visual aid that provides guidance information to help a pilot acquire and maintain the correct glidepath to an aerodrome or an airport

38. Two aircraft are approaching head-on, or approximately so, and there is a danger of collision. What must each pilot do?

a) Alter course to the right.
b) Alter course to the left.
c) The pilot of the heavier aircraft must climb.
d) The pilot of the lighter aircraft must climb.

39. Why is shower activity 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 can bring rapid visibility changes, gusts and turbulence.
d) It is replaced by passenger preference.

40. Why is hydration 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 supports concentration and reduces fatigue risk.
d) It is replaced by passenger preference.

41. 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.

42. A flight is called a "visual flight", if the...

a) Flight is conducted in visual meteorological conditions.
b) Visibility in flight is more than 8 km.
c) Visibility in flight is more than 5 km.
d) Flight is conducted under visual flight rules.

43. What frontal line divides subtropical air from polar cold air, in particular across Central Europe?

a) Polar front
b) Occlusion
c) Warm front
d) Cold front

44. Given: True course: 270°. TAS: 100 kt. Wind: 090°/25 kt. Distance: 100 NM. The flight time equals...

a) 37 Min
b) 62 Min
c) 48 Min
d) 84 Min

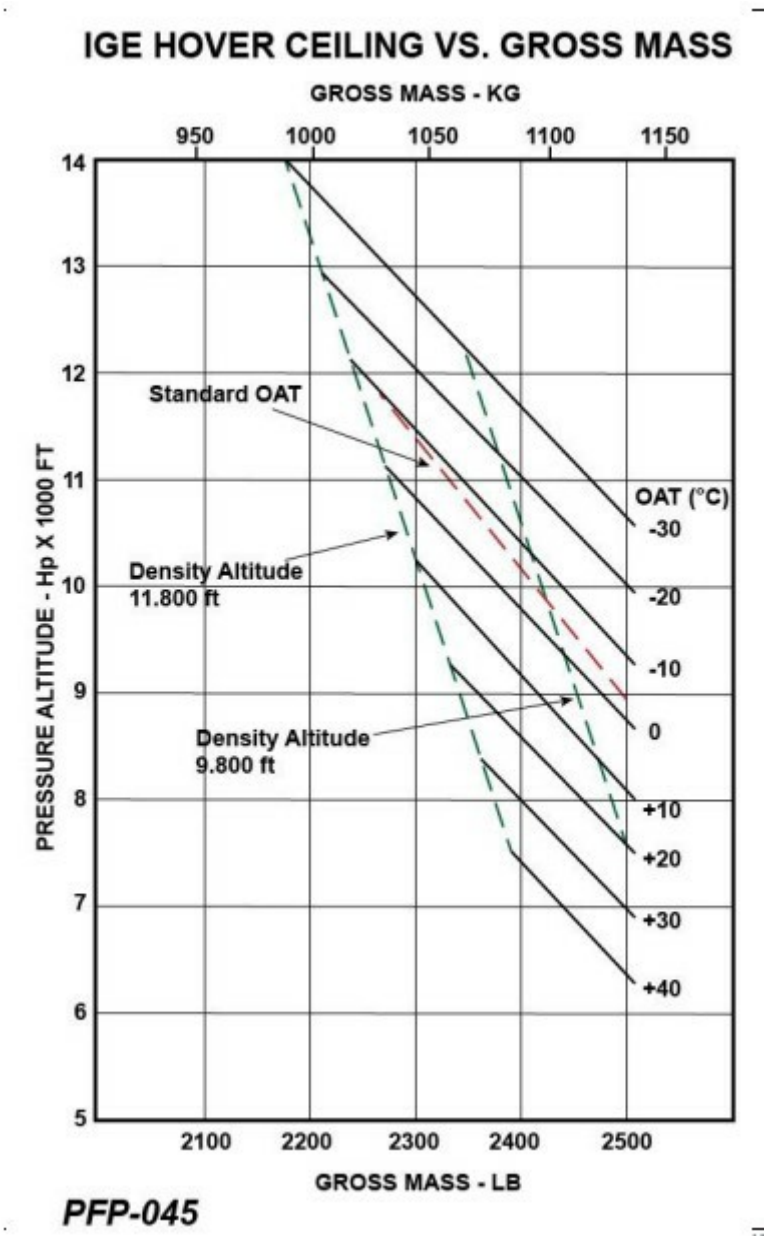
45. Which human-factor point is most relevant? A pilot becomes overloaded during an abnormal indication.

a) The event has no operational relevance.
b) The correct response is to increase workload.
c) Aviate, navigate and communicate should be prioritised.
d) The pilot should ignore symptoms until after landing.

46. For what approximate time period can the short-time memory store information?

a) 10 to 20 seconds
b) 30 to 40 seconds
c) 3 to 7 seconds
d) 35 to 50 seconds

47. What is the maximum pressure altitude to conduct a hover in ground effect if the helicopter mass equals 2400 lbs and the outside air temperature is +20° C? Use figure (PFP-045)



a) 9000 ft
b) 11000 ft
c) 9500 ft
d) 8600 ft

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 characteristic is important when choosing sunglasses used by pilots?

a) Curved sidepiece
b) Unbreakable
c) No UV filter
d) Non-polarised

50. An altitude of 4500 ft is transmitted as...

a) Four five zero zero
b) Four five thousand
c) Four thousand five zero zero
d) Four thousand five hundred

51. 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

52. Distance to the next waypoint is 90 NM and groundspeed is 120 kt. What is the estimated time en route?

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

53. The airspeed indicator is unserviceable. The aircraft may only be operated...

a) If no maintenance organisation is around.
b) When the airspeed indicator is fully functional again.
c) When a GPS with speed indication is used during flight.
d) If only aerodrome patterns are flown.

54. Which ratio corresponds to the rotor disc loading?

a) Rotor disc / helicopter mass
b) Rotor thrust / rotor disc
c) Rotor disc / rotor thrust
d) Helicopter mass / rotor disc

55. What does a cloud coverage of "FEW" mean in a METAR weather report?

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

56. Why is weather diversion decision 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) Early diversion prevents being trapped by deteriorating VFR conditions.
d) It is replaced by passenger preference.

57. Why is inversion conditions 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 trap haze, mist or low cloud near the surface.

58. 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

59. What is the unit for electrical power?

a) Ampere

b) Watt

c) Volt

d) Ohm

60. 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

61. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at 5000 ft MSL?

a) 5000 m

b) 8000 m

c) 3000 m

d) 1500 m

62. Which statement about valley wind is correct?

a) It is unrelated to terrain.

b) It is influenced by terrain heating and cooling.

c) It always blows at hurricane strength.

d) It is a pressure setting.

63. Which statement about total pressure is correct?

a) It is always equal to QNH.

b) It is measured in the fuel tank.

c) It is sensed by the pitot tube when exposed to the airflow.

d) It is the pressure in the hydraulic accumulator only.

64. An aerodrome beacon (ABN) is a...

a) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.

b) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground.

c) Rotating beacon installed at the beginning of the final approach to indicate its location to aircraft pilots from the air.

d) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.

65. A helicopter burns 36 l/h. Planned flight time is 40 minutes and required reserve is 15 l. What minimum fuel should be planned?

a) 24 l

b) 32 l

c) 39 l

d) 47 l

66. What types of airflow can be observed around a rotor blade aerofoil?

a) Laminar airflow on the entire upper surface

b) Laminar airflow at the leading edge, turbulent airflow further back

c) Turbulent airflow at the leading edge, laminar airflow further back

d) Turbulent airflow on the entire upper surface

67. What is the correct term for the system which, among others, controls breathing, digestion, and heart frequency?

a) Critical nervous system

b) Automatical nervous system

c) Autonomic nervous system

d) Compliant nervous system

68. 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

69. The occurrence of a vertigo is most likely when moving the head...

a) During a descent.
b) During a turn.
c) During a climb.
d) During a straight horizontal flight.

70. 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

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Response Scheme

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

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

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