Exam simulation

PPL(H) - Private Pilot Licence (Helicopter) - Aircraft General Knowledge

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STUDENT NAME:	DATE AND TIME:

01. 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.

02. During an approach the aircraft experiences wind shear with a decreasing tailwind. 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 decreases

c) Path is lower, IAS decreases

d) Path is higher, IAS increases

03. The transponder code in case of hi-jacking is...

a) 7000.

b) 7500.

c) 7600.

d) 7700.

04. 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.

05. Which are the advantages of sandwich structures?

a) Low weight, high stiffness, high stability, and high strength

b) Good formability and high temperature durability

c) High temperature durability and low weight

d) High strength and good formability

06. What needs to be considered if permissible limitations were exceeded?

a) The helicopter must be inspected by a qualified engineer before the next flight

b) The helicopter must be subjected to a duplicate inspection by two engineers

c) The helicopter must be inspected by the pilot in command and if no defect is found, no appropriate entry in the aircraft technical log is necessary

d) The helicopter must be inspected by at least two pilots licensed on the type, one of whom must be the pilot in command

07. 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.

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

a) Airspace Restriction Criteria

b) Airworthiness Recurring Control

c) Airspace Rulemaking Committee

d) Airworthiness Review Certificate

09. Why is anti-torque demand 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 generally increases as power and torque increase.

d) It is replaced by passenger preference.

10. Which abbreviation is used for the term "obstacle"?

a) OBTC
b) OBST
c) OBS
d) OST

11. Which statement about QNH is correct?

a) It gives zero on the threshold.
b) It is an altimeter setting that gives elevation when on the ground at the reference aerodrome.
c) It is always 1013.25 hPa.
d) It measures wind velocity.

12. Which Q-code is used for the magnetic bearing from the station?

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

13. 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.

14. Which statement about a correction on the radio is correct?

a) The word MAYDAY is used for every correction.
b) The pilot should remain silent after an error.
c) The word CORRECTION may be used before transmitting the corrected information.
d) Only ATC may correct a transmission.

15. Which statement about QNH transmission is correct?

a) It should be ignored in VFR flight.
b) It is read back only by IFR airliners.
c) It replaces the transponder code.
d) The pressure value should be read back when issued by ATC.

16. When preparing to carry out the weighing procedure on an aircraft, which of the following is required?

a) Remove the batteries
b) Remove service equipment
c) Drain all engine tank oil
d) Drain all useable fuel

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

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

18. Which answer is correct with regard to separation in airspace "E"?

a) IFR traffic is separated only from VFR traffic
b) VFR traffic is separated only from IFR traffic
c) VFR traffic is separated from VFR and IFR traffic
d) VFR traffic is not separated from any other traffic

19. The barometric altimeter with QNH setting indicates...

a) True altitude above MSL.
b) Height above the pressure level at aerodrome elevation.
c) Height above standard pressure 1013.25 hPa.
d) Height above MSL.

20. The term 'isogonal' or 'isogonic line' is defined as a line on an aeronautical chart, connecting all points with the same value of...

a) Heading

b) Variation

c) Deviation

d) Inclination

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

a) NOTAM

b) AIP

c) AIC

d) ICAO chart 1:500000

22. Why is pressure altitude 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 hover ceiling and climb performance.

23. What is the difference between primary and secondary radar?

a) The pulses of a primary radar are reflected by the aircraft's surface, the pulses of a secondary radar system are answered by a transponder

b) The pulses of a primary radar are variably pulse-modulated, the pulses of a secondary radar are statically amplitude-modulated

c) The pulses of a primary radar are variably amplitude-modulated, the pulses of a secondary radar are statically pulse-modulated

d) The primary radar is displayed on a computer screen, the secondary radar on a radar strip

24. Which components do rotor blades made of metal contain?

a) Spar of titan, filling material of stainless steel, and outer skin of steel

b) Spar of lead, filling material of steel, and outer skin of stainless steel

c) Spar of aluminum, filling material of titan, and outer skin of aluminum

d) Spar of steel, filling material of aluminum, and outer skin of aluminum

25. The planned distance is 60 NM and groundspeed is 80 kt. What is the approximate flight time?

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

26. Which of the listed radiotelephony messages has a higher priority than a flight safety message?

a) Meteorological message
b) Communication related to direction finding
c) Flight regularity message
d) Aircraft position report message

27. What aerodynamic effect is most relevant? Forward speed approaches the never-exceed speed.

a) The altimeter setting becomes invalid.
b) The magnetic compass becomes the primary lift source.
c) The aircraft mass automatically decreases.
d) retreating blade stall and structural limits become important.

28. The term "moment" with regard to a mass and balance calculation is referred to as...

a) Quotient of a mass and a balance arm.
b) Difference of a mass and a balance arm.
c) Sum of a mass and a balance arm.
d) Product of a mass and a balance arm.

29. After entering an autorotation a large helicopter mass leads to...

a) A rapid collapse of the rotor RPM
b) A rapid build-up of the rotor RPM
c) A large change in centre of gravity
d) A small rate of descent in a vertical autorotation

30. 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.

31. Which human-factor point is most relevant? A pilot is unsure whether a new antihistamine is safe for flying.

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) The pilot should obtain aeromedical advice before flying.

32. Which statement about spatial disorientation is correct?

a) It occurs only in multi-engine aircraft.
b) It is prevented by ignoring instruments.
c) It can occur when visual references are poor or misleading.
d) It improves with fatigue.

33. Which statement about medication is correct?

a) It is always safe if available without prescription.
b) It should be checked for compatibility with flying before use.
c) It replaces a medical certificate.
d) It has no side effects in pilots.

34. The Pitot / static system is required to...

a) Prevent icing of the Pitot tube.
b) Measure total and static air pressure.
c) Correct the reading of the airspeed indicator to zero when the aircraft is static on the ground.
d) Prevent potential static buildup on the aircraft.

35. What is the correct way to transmit the call sign OE-JVK?

a) Oscar Echo Jankee Victor Kilogramm
b) Omega Echo Juliett Victor Kilogramm
c) Omega Echo Jankee Victor Kilo
d) Oscar Echo Juliett Victor Kilo

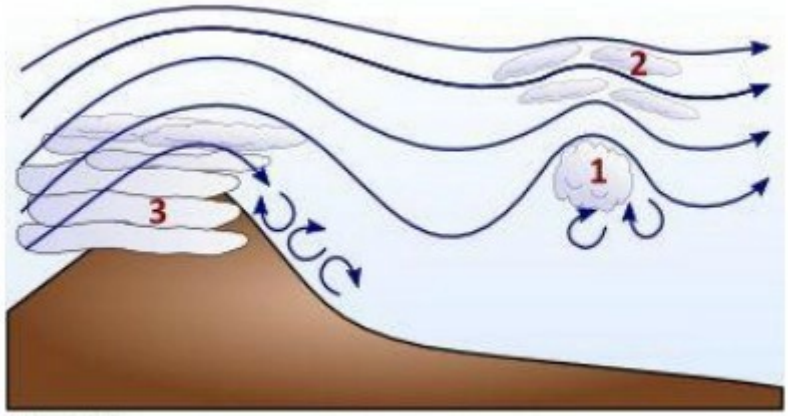
36. The VDF range depends on...

a) The condition of the ionosphere.
b) The aircraft's speed.
c) The range of the ground / surface wave.
d) The aircraft's altitude.

37. In what case is visibility transmitted in metres?

a) Up to 5 km
b) Greater than 5 km
c) Up to 10 km
d) Greater than 10 km

38. What weather phenomenon designated by "2" has to be expected on the lee side during "Foehn" conditions? Use figure (MET-001).



a) Cumulonimbus
b) Altocumulus lenticularis
c) Altocumulus Castellanus
d) Nimbostratus

39. Why is rotor area safety 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 protects people from main and tail rotor hazards.

40. Which air traffic service is responsible for the safe conduct of flights?

a) ATC (air traffic control)
b) ALR (alerting service)
c) FIS (flight information service)
d) AIS (aeronautical information service)

41. 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.

42. Which statement about brownout or whiteout is correct?

a) It improves depth perception.
b) It occurs only above cloud.
c) It is a radio failure.
d) It can cause loss of visual references during take-off or landing.

43. 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.

44. The required data for a mass and balance calculation including masses and balance arms can be found in the...

a) Documentation of the annual inspection.
b) Mass and balance section of the pilot's operating handbook of this particular aircraft.
c) Performance section of the pilot's operating handbook of this particular aircraft.
d) Certificate of airworthiness.

45. 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

46. Which statement about lift on a rotor blade is correct?

a) It depends on airflow, aerofoil shape, angle of attack and air density.
b) It is independent of angle of attack.
c) It is produced only by the tail rotor.
d) It increases when air density becomes zero.

47. Which statement about VFR cruising levels is correct?

a) They are selected only by aircraft colour.
b) They are the same in every country without exceptions.
c) They depend on magnetic track where the semicircular system applies.
d) They are used only below 500 ft AGL.

48. 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

49. Which action best supports safe management of anti-torque demand?

a) Delay the decision until after take-off.
b) Use the item only if requested by passengers.
c) Anticipate pedal input when changing collective.
d) Ignore it when the helicopter has sufficient fuel.

50. A wind shear is...

a) A vertical or horizontal change of wind speed and wind direction.
b) A wind speed change of more than 15 kt.
c) A meteorological downslope wind phenomenon in the alps.
d) A slow increase of the wind speed in altitudes above 13000 ft.

51. What pressure pattern can be observed when a cold front is passing?

a) Continually increasing pressure
b) Continually decreasing pressure
c) Constant pressure pattern
d) Shortly decreasing, thereafter increasing pressure

52. 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

53. When do you expect wind shear?

a) When passing a warm front
b) During a summer day with calm winds
c) During an inversion
d) In calm wind in cold weather

54. What should a PPL(H) pilot do when planning to cross a TMZ?

a) Assume it is inactive unless ATC calls first.
b) operate the required transponder mode and code.
c) Switch off the transponder to reduce workload.
d) Ignore it when flying VFR below 1,000 ft AGL.

55. A frequency of 119.500 MHz is correctly transmitted as...

a) One one niner thousand decimal five zero
b) One one niner decimal five zero zero
c) One one niner decimal five zero
d) One one niner decimal five

56. Which action best supports safe management of driven region of the rotor?

a) Balance rotor RPM using collective.
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.

57. A helicopter burns 34 l/h. Planned flight time is 50 minutes and required reserve is 20 l. What minimum fuel should be planned?

a) 29 l
b) 49 l
c) 39 l
d) 57 l

58. Which statement about a circuit breaker is correct?

a) It is used to adjust blade tracking.
b) It increases fuel pressure mechanically.
c) It sets the altimeter to QFE.
d) It protects an electrical circuit from excessive current.

59. Under Part-NCO, a helicopter unable to sustain level flight after critical-engine failure flies over water beyond autorotational distance from land. What flotation equipment is required for each adult on board?

a) A life-jacket for passengers only; crew members are exempt.

b) One shared life-jacket for the whole helicopter.

c) A life-raft instead of individual life-jackets.

d) A life-jacket, worn or stowed so that it is readily accessible from that person's seat or berth.

60. Which statement about vortex ring state is correct?

a) It occurs only with the engine stopped.

b) It can occur with high rate of descent, low forward speed and power applied.

c) It is prevented by increasing collective indefinitely.

d) It is a compass turning error.

61. 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

62. 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.

63. What causes the phase lag between the displacement and the flapping of a rotor blade?

a) Rounding of the rotor blade tips

b) Inertia, mass, and aerodynamic forces

c) Friction in the rotor blade spindles

d) Advance or retreat angle of 90°

64. In which way may an altimeter subscale which is set to an incorrect QNH lead to an incorrect altimeter reading?

a) If the subscale is set to a higher than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended

b) If the subscale is set to a lower than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended

c) If the subscale is set to a lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended

d) If the subscale is set to a higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended

65. The mast bearing on the upper gearbox output acts against...

a) Torsions.

b) Torques.

c) Traction and bending forces.

d) Contact pressure.

66. Which are the properties of a Mercator chart?

a) The scale is constant, great circles are depicted as curved lines, rhumb lines are depicted as straight lines

b) The scale is constant, great circles are depicted as straight lines, rhumb lines are depicted as curved lines

c) The scales increases with latitude, great circles are depicted as curved lines, rhumb lines are depicted as straight lines

d) The scales increases with latitude, great circles are depicted as straight lines, rhumb lines are depicted as curved lines

67. Which statement about the required force to change the pitch angle is correct?

a) It is the smallest by using an advance angle of 90°

b) It is the smallest by using a delta-three-hinge

c) It must be greater than the rotor disc loading

d) It must be greater than the tangential force

68. 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.

69. What is the function of the red blood cells (erythrocytes)?

a) Blood sugar regulation
b) Oxygen transport
c) Immune defense
d) Blood coagulation

70. Basic empty mass is 720 kg, occupants are 80 kg and 65 kg, usable fuel for departure is 35 kg and MTOM is 920 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) Yes, the calculated take-off mass is within the limit.
d) The result cannot be assessed because empty mass is irrelevant.

Exam simulation

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Response Scheme

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

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

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