Exam simulation

PPL(H) - Private Pilot Licence (Helicopter) - Air Law

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STUDENT NAME:	DATE AND TIME:

01. Which colour does Avgas 100 LL have?

a) Blue

b) Yellow

c) Green

d) Red

02. 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

03. The formation of medium to large precipitation particles requires...

a) Strong wind

b) A high cloud base

c) Strong updrafts

d) An inversion layer

04. Which statement about aluminium structures is correct?

a) They require no inspection once installed.

b) They may be repaired with household adhesive.

c) They are unaffected by heat, UV and operating time.

d) corrosion protection and inspection remain important.

05. Which are the properties of a Lambert conformal chart?

a) The chart is conformal and an equal-area projection
b) Rhumb lines are depicted as straight lines and the chart is conformal
c) Great circles are depicted as straight lines and the chart is an equal-area projection
d) The chart is conformal and nearly true to scale

06. In METAR/TAF coding, what does BKN mean?

a) Freezing rain.
b) Clear sky below 5,000 ft.
c) Broken cloud.
d) Variable wind direction.

07. Which action best supports safe management of magnetic variation update?

a) Delay the decision until after take-off.
b) Use current chart or database values.
c) Use the item only if requested by passengers.
d) Ignore it when the helicopter has sufficient fuel.

08. 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.

09. What is the function of the blood platelets (thrombocytes)?

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

10. If there is any doubt about ambiguity, a time of 1620 is to be transmitted as...

a) One six two zero
b) One thousand six hundred two zero
c) Two zero
d) Sixteen twenty

11. The Caution Area is marked on an airspeed indicator by what colour?

a) White
b) Red
c) Green
d) Yellow

12. 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.

13. Why is position fixing important for a PPL(H) flight?

a) It reduces uncertainty by using two or more independent references.
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.

14. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL125?

a) 5000 m
b) 8000 m
c) 3000 m
d) 1500 m

15. What is indicated by a pattern of longitudinal stripes of uniform dimensions disposed symmetrically about the centreline of a runway?

a) A ground roll could be started from this position
b) Do not touch down before them
c) Do not touch down behind them
d) At this point the glide path of an ILS hits the runway

16. Which actions shall be taken if the engine oil pressure continuously drops to zero?

a) Check the mixture lever and enrich the mixture
b) Reduce engine performance and continue the flight to the destination
c) Monitor oil temperature and land at the nearest aerodrome
d) Land immediately on suitable terrain and be prepared for an autorotation

17. The neutral point is a point where...

a) The aerodynamic forces act torque-free
b) The imaginary axes of a helicopter meet each other
c) The entire helicopter mass can be assumed to attack
d) The torque at the chord line remains constant for changing angles of attack

18. 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

19. Which actions shall be taken if the rotor RPM indicator fails during cruise flight?

a) Try to get back an indication by opening and closing the throttle
b) Increase engine power and continue the flight to the nearest aerodrome
c) Continue the flight as long as the engine RPM indicator works
d) Perform an emergency landing on suitable terrain

20. Which action best supports safe management of stall region in autorotation?

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) Avoid excessive collective that expands the stall region.

21. Which action best supports safe management of blade pitch increase?

a) Delay the decision until after take-off.
b) Monitor rotor RPM and engine limits.
c) Use the item only if requested by passengers.
d) Ignore it when the helicopter has sufficient fuel.

22. 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

23. What is the best planning conclusion for rapidly building towering cumulus near the route?

a) Continue without checking updated weather.
b) Assume VMC is guaranteed.
c) consider thunderstorm development and avoid the area.
d) Use QFE instead of weather information.

24. 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.

25. An aircraft is flying with a true airspeed (TAS) of 180 kt and a headwind component of 25 kt for 2 hours and 25 minutes. The distance flown equals...

a) 375 NM.
b) 202 NM.
c) 435 NM.
d) 693 NM.

26. 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.

27. 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

28. Which action best supports safe management of minimum safe altitude?

a) Calculate it before flight and update for route changes.
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.

29. The validity of a medical examination certificate class 2 for a 62 years old pilot is...

a) 12 Months.
b) 48 Months.
c) 24 Months.
d) 60 Months.

30. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?

a) The deviation of the bar from the centre indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS.

b) The deviation of the bar from the centre indicates the track error as angular distance in degrees; the scale for full deflection is +-10°.

c) The deviation of the bar from the centre indicates the track error as absolute distance in NM; the scale for full deflection is +-10 NM.

d) The deviation of the bar from the centre indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS.

31. How can a pilot confirm a search and rescue signal on ground in flight?

a) Push the rudder in both directions multiple times

b) Fly in a parabolic flight path multiple times

c) Rock the wings

d) Deploy and retract the landing flaps multiple times

32. Which transponder code indicates a loss of radio communication?

a) 7000

b) 7700

c) 7600

d) 2000

33. 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.

34. What clouds and weather can typically be observed during the passage of a cold front?

a) In coastal areas during daytime wind from the coast and forming of cumulus clouds, dissipation of clouds during evening and night

b) Cirrus, thickening altostratus and altocumulus clouds, lowering cloud base with rain, nimbostratus

c) Wind becoming calm, dissipation of clouds and warming during summer; formation of extended high fog layers during winter

d) Strongly developed cumulus clouds (Cb) with showers of rain and thunderstorms, gusting wind followed by cumulus clouds with isolated showers of rain

35. What does a readability of 1 indicate?

a) The transmission is readable now and then

b) The transmission is perfectly readable

c) The transmission is unreadable

d) The transmission is readable but with difficulty

36. What does the term "confirmation bias" mean?

a) The feedback loop in a closed communication

b) The preference to find arguments to prove one's own mental model

c) The bias to confirm each radio call

d) The critical check of ambiguous situations in flight

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

a) Height of ionosphere

b) Twilight error

c) Altitude

d) Shoreline effect

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

a) VMC

b) VFR

c) VRU

d) VFS

39. Which action best supports safe management of approach briefing?

a) Delay the decision until after take-off.
b) Brief the approach before entering the confined area or circuit.
c) Use the item only if requested by passengers.
d) Ignore it when the helicopter has sufficient fuel.

40. Which statement about the rotor disc loading in a horizontal curve is correct?

a) It decreases with increasing bank angle
b) It increases with increasing bank angle
c) No change in relation to the cruise flight
d) Effects depend on the type of helicopter

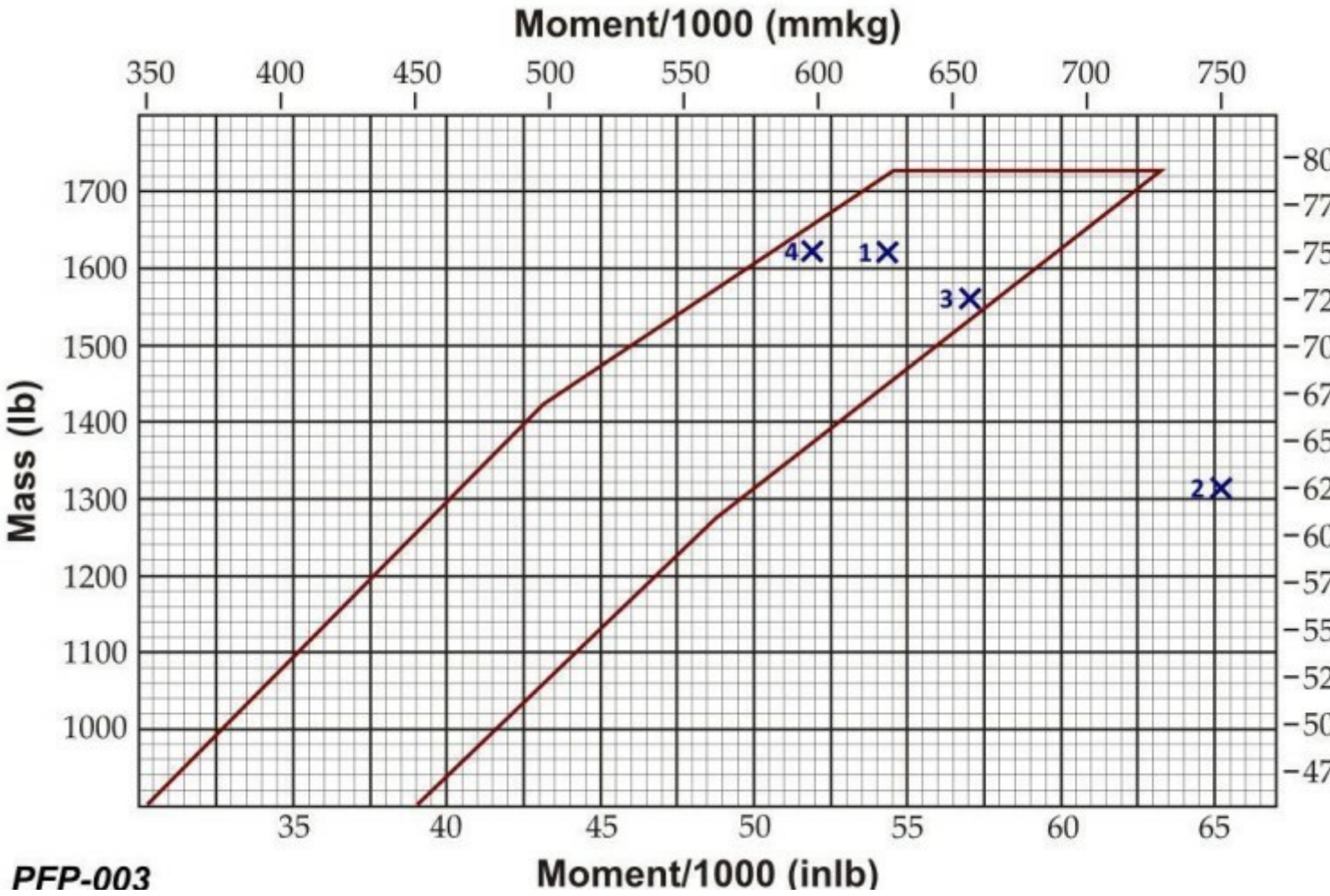
41. Which statement about track is correct?

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.

42. 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.

**43. The calculated take-off mass is 750 kg and the total moment is 625 000 kg mm (equivalent to 625
Which numbered cross represents this loading? Use figure (PFP-003); its metric horizontal scale is m
divided by 1 000.**



a) 1

b) 3

c) 4

d) 2

44. What information is provided in the part "AD" of the AIP?

a) Warnings for aviation, ATS airspaces and routes, restricted and danger areas

b) Access restrictions for aerodromes, passenger controls, requirements for pilots, licence samples and validity periods

c) Map icons, list of radio navigation aids, time for sunrise and sunset, airport fees, air traffic control fees

d) Table of contents, classification of aerodromes with corresponding maps, approach charts, taxi charts

45. 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

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

a) 252°
b) 283°
c) 253°
d) 268°

47. Which statement about workload management is correct?

a) It means completing paperwork before controlling the aircraft.
b) It is irrelevant during emergencies.
c) It includes prioritising aircraft control, navigation and communication.
d) It replaces situational awareness.

48. In what different ways can a risk be handled appropriately?

a) Ignore, accept, transfer, extrude
b) Avoid, reduce, transfer, accept
c) Extrude, avoid, palliate, transfer
d) Avoid, ignore, palliate, reduce

49. What is the correct term for a message used for air traffic control?

a) Flight regularity message
b) Message related to direction finding
c) Flight safety message
d) Meteorological message

50. Which statement about bird strike risk is correct?

a) It exists only above FL 100.
b) It is eliminated by landing lights.
c) It affects only turbine aircraft.
d) It is increased near wetlands, coastlines, landfill sites and during migration periods.

51. Why does a flare during an autorotation generate higher rotor RPM?

a) The pitch angle increases
b) The vertical airflow through the rotor disc increases
c) The tangential force tilts backwards
d) The ground effect leads to better performance

52. 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.

53. Which statement about fatigue is correct?

a) It affects only physical strength.
b) It is eliminated by opening a window.
c) It has no effect on private pilots.
d) It reduces attention, judgement and reaction time.

54. Which action best supports safe management of heading log preparation?

a) Delay the decision until after take-off.
b) Prepare headings, times and fuel checks before departure.
c) Use the item only if requested by passengers.
d) Ignore it when the helicopter has sufficient fuel.

55. 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.

56. 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.

57. 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.

58. Which of the human senses is most influenced by hypoxia?

a) The visual perception (vision)
b) The olfactory perception (smell)
c) The tactile perception (sense of touch)
d) The auditory perception (hearing)

59. Which kind of engine is susceptible to carburettor fire?

a) Turboprop engines
b) Turbine engines
c) Piston engines
d) Electric motors

60. Which statement about stress is correct?

a) It always improves perception.
b) It has no physiological effects.
c) It can narrow attention and reduce decision quality if unmanaged.
d) It prevents fatigue.

61. What is the percentage of nitrogen in the atmosphere?

a) 78 %
b) 21 %
c) 0.1 %
d) 1 %

62. Which statement about empty-field myopia is correct?

a) It can make visual scanning less effective when there are few visual cues.
b) It improves lookout in haze.
c) It is a radio navigation error.
d) It affects only instrument-rated pilots.

63. The airframe of an accelerating helicopter continues to bend until the...

a) Horizontal thrust component equals the drag
b) Thrust passes in front of the centre of gravity
c) Vertical thrust component equals the drag
d) Thrust passes behind the centre of gravity

64. What is the purpose of the signal square at an aerodrome?

a) It is an illuminated area on which search and rescue and fire fighting vehicles are placed
b) It is a specially marked area to pick up or drop towing objects
c) Aircraft taxi to this square to get light signals for taxi and take-off clearance
d) It contains special symbols to indicate the conditions at the aerodrome visually to over-flying aircraft

65. Which statement about situational awareness is correct?

a) It is the same as indicated airspeed.
b) It is provided only by ATC.
c) It is not needed in local flights.
d) It is understanding what is happening and anticipating what may happen next.

66. 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.

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. Carbon monoxide contamination in the cabin of a piston-engine helicopter can be caused by...

a) Generator failure
b) Cracks or leaks in the cabin heating system
c) Fuel or hydraulic fluid in the tanks
d) Pitot icing

69. Magnetic heading is 330° and compass deviation is 6° W. What compass heading should be flown?

a) 324°
b) 336°
c) 351°
d) 321°

70. 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.

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Response Scheme

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

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