

Exam simulation

PPL(H) - Private Pilot License - Meteorology



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STUDENT NAME:

DATE AND TIME:

01. 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.

02. What factors are required for the formation of precipitation in clouds?

- a) Calm winds and intensive sunlight insolation
- b) The presence of an inversion layer
- c) High humidity and high temperatures
- d) Moderate to strong updrafts

03. The rotor thrust is...

- a) Perpendicular to the tip path plane
- b) Opposite to the rotation of the rotor blade element
- c) Parallel with the main rotor shaft
- d) Perpendicular to the hub plane

04. Which transponder code indicates a radio failure?

- a) 7700
- b) 7600
- c) 7500
- d) 7000

05. Which statement about ADF indication is correct?

- a) It gives DME distance.
- b) It points towards the NDB relative to the aircraft heading.
- c) It measures true airspeed.
- d) It automatically corrects wind drift.

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06. 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.

07. A helicopter burns 30 l/h. Planned flight time is 70 minutes and required reserve is 20 l. What minimum fuel should be planned?

- a) 35 l
- b) 45 l
- c) 55 l
- d) 63 l

08. Which action best supports safe management of door and latch security?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Check all doors and panels before departure.
- d) Ignore it when the helicopter has sufficient fuel.

09. SIGMET warnings are issued for...

- a) Specific routings.
- b) Countries.
- c) Airports.
- d) FIRs / UIRs.

10. Which statement about Part-FCL is correct?

- a) It is a maintenance standard for approved organisations only.
- b) It contains flight crew licensing requirements used under the EASA system.
- c) It replaces SERA for VFR operations.
- d) It applies only to air traffic controllers.

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11. Given: Calibrated airspeed (CAS): 155 kt. Flight level (FL) 80. Outside air temperature (OAT): +15° C. The true airspeed (TAS) equals...

- a) 180 kts.
- b) 170 kts.
- c) 155 kts.
- d) 134 kts.

12. 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

13. Which statement about decision-making is correct?

- a) It should use available information, time and risk assessment.
- b) It should be delayed until after landing in every case.
- c) It is based only on passenger preference.
- d) It is unnecessary when GPS is available.

14. Which statement about engine fire on the ground is correct?

- a) Take off immediately to improve cooling.
- b) Shut down and evacuate according to the checklist if required.
- c) Open fuel valves fully.
- d) Continue taxi to save time.

15. 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.

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16. 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.

17. Which action best supports safe management of hover ceiling?

- 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 performance data before operating near limits.

18. What is the meaning of the phrase "Roger"?

- a) Permission for proposed action is granted
- b) An error has been made in this transmission. The correct version is...
- c) I understand your message and will comply with it
- d) I have received all of your last transmission

19. Which statement about passenger carrying recency is correct?

- a) It is needed only for night flights.
- b) It can be replaced by holding a radio licence.
- c) It applies only to commercial helicopter transport.
- d) The pilot must have completed the required recent take-offs and landings before carrying passengers.

20. In what situation is it appropriate to set the transponder code 7600?

- a) Emergency
- b) Hijacking
- c) Flight into clouds
- d) Loss of radio



21. Why is emergency landing briefing 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 prepares passengers for brace position, exits and evacuation.

22. Why is magnetic variation update important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) Outdated variation can create heading and bearing errors.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

23. Why is fuel reserve 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 protects against delays, wind error and diversion needs.
- d) It is replaced by passenger preference.

24. The dry adiabatic lapse rate has a value of...

- a) 0.6° C / 100 m.
- b) 1.0° C / 100 m.
- c) 2° / 1000 ft.
- d) 0.65° C / 100 m.

25. 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

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26. Air traffic control service is conducted by which services?

- a) FIS (flight information service) AIS (aeronautical information service) AFS (aeronautical fixed telecommunication service)
- b) APP (approach control service) ACC (area control service) FIS (flight information service)
- c) TWR (aerodrome control service) APP (approach control service) ACC (area control service)
- d) ALR (alerting service) SAR (search and rescue service) TWR (aerodrome control service)

27. Which phrase is used by a pilot when he wants to fly through controlled airspace?

- a) Would like
- b) Want
- c) Request
- d) Apply

28. Which action best supports safe management of IMSAFE self-assessment?

- a) Delay the decision until after take-off.
- b) Complete the check honestly before flight.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

29. What aerodynamic effect is most relevant? The helicopter descends vertically with power and low airspeed.

- a) vortex ring state risk may increase.
- b) The altimeter setting becomes invalid.
- c) The magnetic compass becomes the primary lift source.
- d) The aircraft mass automatically decreases.

30. Which action best supports safe management of effective translational lift?

- a) Delay the decision until after take-off.
- b) Expect performance and attitude changes during acceleration.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

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31. What phrase is used by a pilot if a transmission is to be answered with "no"?

- a) Finish
- b) No
- c) Not
- d) Negative

32. The helicopter's stability is increased by...

- a) Reducing the rotor RPM
- b) Attaching a stabilizer
- c) Pivoting the drag hinge
- d) Decreasing the rotor mass

33. Which statement about an altimeter is correct?

- a) It measures rotor RPM.
- b) It indicates magnetic heading.
- c) It senses fuel flow directly.
- d) It indicates altitude by measuring static pressure changes.

34. 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.

35. 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

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36. Which transponder code should be set during a radio failure without any request?

- a) 7700
- b) 7500
- c) 7600
- d) 7000

37. Basic empty mass is 760 kg, occupants are 70 kg and 70 kg, usable fuel for departure is 28 kg and MTOM is 930 kg. Is the mass within limits?

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

38. Wake turbulence is caused by...

- a) Jet blast behind a turbine engine.
- b) Turbulence at the downwind side of a mountain range.
- c) Wind shear at the wingtip of an aerofoil.
- d) Pressure compensation at the wingtip of an aerofoil.

39. The term "flight time" is defined as...

- a) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown.
- b) The total time from the first take-off until the last landing in conjunction with one or more consecutive flights.
- c) The period from the start of the take-off run to the final touchdown when landing.
- d) The total time from the first aircraft movement until the moment it finally comes to rest at the end of the flight.

40. How may windshear be recognised in flight?

- a) Sudden and apparently baseless change of oil pressure, oil temperature, engine speed and altitude.
- b) Sudden and apparently baseless change in altitude, airspeed, rate of climb or descent.
- c) Sudden and apparently baseless change in heading, turning rate, engine speed or oil temperature.
- d) Rather unexpected onset of drizzle associated with high stratus clouds following previously clear skies and calm conditions.

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41. The term "aerodrome elevation" is defined as...

- a) The highest point of the landing area.
- b) The lowest point of the landing area.
- c) The average value of the height of the manoeuvring area.
- d) The highest point of the apron.

42. Why is lost procedure 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 provides a structured way to regain position awareness.

43. Why is fuel valve confirmation 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 fuel starvation from incorrect selection.
- d) It is replaced by passenger preference.

44. 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.

45. Which statement about orographic cloud is correct?

- a) It forms only over flat water.
- b) It proves the wind is calm.
- c) It forms when moist air is lifted over terrain.
- d) It is unrelated to terrain.

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46. Loads must be adequately secured in order to...

- a) Allow steep turns.
- b) Prevent excessive 'g'-loading during the landing flare.
- c) Carry extra fuel.
- d) Avoid any centre of gravity (CG) movements.

47. Which of the following messages has the highest priority?

- a) Turn left
- b) Wind 300 degrees, 5 knots
- c) Request QDM
- d) QNH 1013

48. The transitional lift can be noticed by...

- a) An aural warning.
- b) Strong load factors.
- c) Vibrations.
- d) A loss of engine rpm.

49. 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

50. What is the minimum flight visibility in airspace "E" for an aircraft operating under VFR at FL75?

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

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51. The term ,magnetic course' (MC) is defined as...

- a) The direction from an arbitrary point on Earth to the magnetic north pole.
- b) The angle between true north and the course line.
- c) The angle between magnetic north and the course line.
- d) The direction from an arbitrary point on Earth to the geographic North Pole.

52. What is the minimum flight visibility in airspace "C" at and above FL 100 for an aircraft operating under VFR?

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

53. What is the best planning conclusion for freezing level close to planned altitude with visible moisture?

- a) Continue without checking updated weather.
- b) Assume VMC is guaranteed.
- c) Use QFE instead of weather information.
- d) consider airframe icing risk.

54. After take-off an aircraft enters wind shear with a decreasing headwind. As a result...

- a) The aircraft flies below the estimated climb path.
- b) The aircraft flies above the estimated climb path.
- c) The ground speed (GS) will decrease.
- d) The true airspeed (TAS) will increase.

55. What is the correct abbreviation of the call sign D-EAZF?

- a) AZF
- b) DEF
- c) DEA
- d) DZF

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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. 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

58. 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

59. 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.

60. What is the correct way to transmit the call sign HB-YKM?

- a) Hotel Bravo Yuliett Kilo Mikro
- b) Home Bravo Yankee Kilo Mikro
- c) Hotel Bravo Yankee Kilo Mike
- d) Home Bravo Yuliett Kilo Mike

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61. Which runway designators are correct for 2 parallel runways?

- a) "06L" and "06R"
- b) "24" and "25"
- c) "26" and "26R"
- d) "18" and "18-2"

62. The distance between the centre of gravity and the datum is called...

- a) Lever.
- b) Balance arm.
- c) Torque.
- d) Span width.

63. Which statement about the main gearbox is correct?

- a) It stores the emergency locator transmitter.
- b) It measures outside air temperature.
- c) It reduces engine output speed and transmits power to the rotor system.
- d) It replaces the clutch.

64. Which statement about wire hazards is correct?

- a) They are always marked by NOTAM.
- b) They are difficult to see and should be anticipated near roads, valleys and built-up areas.
- c) They are visible only on radar.
- d) They affect only fixed-wing aircraft.

65. 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°

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66. What does the slip indicator show?

- a) Aircraft's bank
- b) Vertical to horizon
- c) Apparent vertical
- d) Rate of turn

67. The slip indicator's ball (apparent vertical) has moved to the right during a right turn. By what actions may the ball be led back to middle position?

- a) Reduce speed, increase bank
- b) Reduce bank, increase rate of turn
- c) Reduce rate of turn, reduce bank
- d) Increase bank, increase rate of turn

68. What must be considered for cross-border flights?

- a) Regular location messages
- b) Approved exceptions
- c) Transmission of hazard reports
- d) Requires flight plans

69. What does the abbreviation HSI stand for?

- a) Horrifying Steep Inclination
- b) Hybernating System Indication
- c) Horizontal Situation Indicator
- d) Horizontal Slip Indicator

70. Which conditions are likely for the formation of advection fog?

- a) Warm, humid air moves over a cold surface
- b) Cold, humid air moves over a warm ocean
- c) Warm, humid air cools during a cloudy night
- d) Humidity evaporates from warm, humid ground into cold air

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Response Scheme

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

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