

Exam simulation

PPL(H) - Private Pilot License - Communication



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STUDENT NAME:

DATE AND TIME:

01. What is the purpose of "interception lines" in visual navigation?

- a) To mark the next available en-route airport during the flight
- b) They are used as easily recognizable guidance upon a possible loss of orientation
- c) They help to continue the flight when flight visibility drops below VFR minima
- d) To visualize the range limitation from the departure aerodrome

02. Which statement about low rotor RPM is correct?

- a) Increase collective to load the rotor further.
- b) Switch off all radios first.
- c) Reduce collective as required and recover RPM according to the flight manual.
- d) Ignore it if airspeed is low.

03. Which action best supports safe management of compass deviation card?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Apply the relevant deviation correction.
- d) Ignore it when the helicopter has sufficient fuel.

04. 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.

05. Under what conditions may class D airspace be entered with a radio failure?

- a) There are other aircraft in the aerodrome circuit
- b) It is the destination aerodrome
- c) Approval has been granted before
- d) It is the aerodrome of departure

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06. 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.

07. 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.

08. What conditions are favourable for the formation of thunderstorms?

- a) Warm humid air, conditionally unstable environmental lapse rate
- b) Warm and dry air, strong inversion layer
- c) Clear night over land, cold air and patches of fog
- d) Calm winds and cold air, overcast cloud cover with St or As

09. Which of the following is a valid VHF COM frequency for aviation voice communication?

- a) 120.50 MHz
- b) 115.15 MHz
- c) 117.30 kHz
- d) 108.80 MHz

10. Which statement about sterile cockpit discipline is correct?

- a) It is used only in pressurised aircraft.
- b) It means turning off all avionics.
- c) It helps reduce distraction during critical phases.
- d) It is unrelated to safety.

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11. Which action best supports safe management of freezing level?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Compare planned altitude with freezing level and cloud.
- d) Ignore it when the helicopter has sufficient fuel.

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

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

13. Assume two arbitrary points A and B on the same parallel of latitude, but not on the equator. Point A is located on 010°E and point B on 020°E. The rhumb line distance between A and B is always...

- a) More than 300 NM.
- b) More than 600 NM.
- c) Less than 300 NM.
- d) Less than 600 NM.

14. What is the minimum age to obtain a private pilot licence?

- a) 18 years
- b) 17 years
- c) 21 years
- d) 16 years

15. What might be the reason for scratches on the tail stringer?

- a) Old colour
- b) Intense erosion
- c) Rotor blade contact
- d) Contact with ground

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

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

17. Why is obstacle clearance important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It determines whether the departure or approach path is acceptable.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

18. What is the reason for the driving forces in an autorotation?

- a) Downward tilted effective airflow
- b) Low rate of descent
- c) Increased pitch angle
- d) High airspeeds

19. What does a readability of 3 indicate?

- a) The transmission is readable but with difficulty
- b) The transmission is perfectly readable
- c) The transmission is unreadable
- d) The transmission is readable now and then

20. 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.

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21. Which action best supports safe management of disc loading?

- a) Consider mass and rotor disc area when assessing performance.
- 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.

22. 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

23. Which light colour advises the pilot to the condition "corrective action may be required in the future"?

- a) Green
- b) Red
- c) Amber (orange)
- d) Blue

24. How often shall a blind transmission be made?

- a) One time
- b) Three times
- c) Two times
- d) Four times

25. 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.

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26. With increasing altitude, the power of a carburettor engine...

- a) Remains constant.
- b) Increases.
- c) Decreases.
- d) First decreases, from 5000 ft on increases.

27. Which of the following options has an effect on the autorotation characteristics?

- a) Smoothly working tail rotor control and low RPM warning systems
- b) Air temperature and wind speed
- c) Pressure altitude and wind speed
- d) Helicopter mass and density altitude

28. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +11°C. The QNH altitude is 6500 ft. The true altitude equals...

- a) 6750 ft.
- b) 7000 ft
- c) 6500 ft
- d) 6250 ft.

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 section of the flight manual describes the power required of a helicopter in a hover?

- a) Performance
- b) Limitations
- c) Normal procedures
- d) Supplements

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31. Which action best supports safe management of convective SIGMET information?

- a) Delay the decision until after take-off.
- b) Avoid affected areas by a safe margin.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

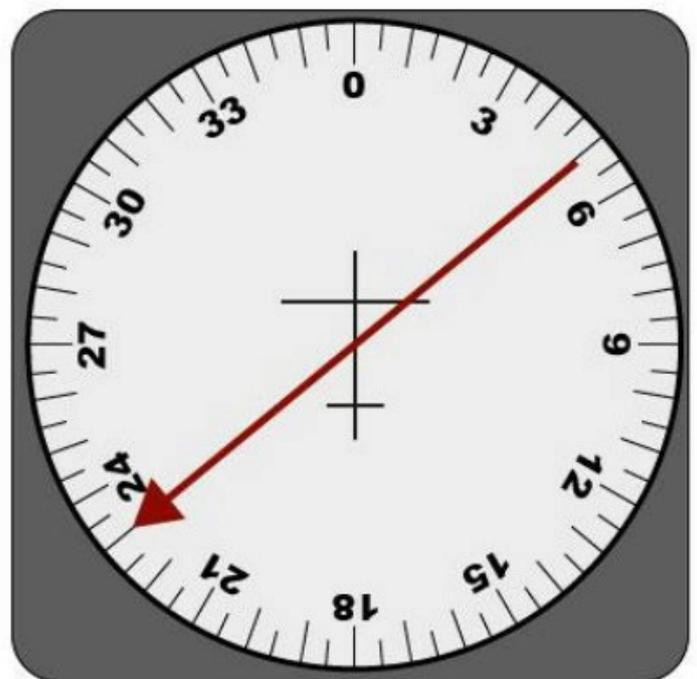
32. What does a cloud coverage of "FEW" mean in a METAR weather report?

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

33. The pilot wants to proceed directly to the beacon. The wind is calm. The pilot should follow a QDM of... Use figure (NAV-019)



NAV-019



- a) 230°.
- b) 200°.
- c) 080°.
- d) 260°.

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34. What is the advantage of a turbulent airflow compared to a laminar airflow at an aerofoil with a high angle of attack?

- a) It has a thinner boundary layer
- b) It has no form drag
- c) The separation point moves further forward
- d) It adheres to the aerofoil for a longer time

35. The height of the tropopause of the International Standard Atmosphere (ISA) is at...

- a) 48000 ft.
- b) 5500 ft.
- c) 36000 ft.
- d) 11000 ft.

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36. The specified speed in the ATS flight plan equals: Use figure (PFP-051)

Flugplan **PFP-051**

3 Art der Meldung: (FPL)
7 Luftfahrzeugkennung: OEABC
8 Flugregeln: V. VFR
Art des Fluges: G. Allg. Zivilluftfahrt

9 Anzahl: 1
LFZ Type: DV20
Wirbelschleppenkategorie: L - Leicht
10 Ausrüstung: ORV / C

13 Abflugplatz: LOWK
EOBT (Zeit): 2000
EOBD (Datum): 2012/10/22

15 Geschwindigkeit: N - Knoten 0100
Flughöhe: F - Flugfläche 095

Flugstrecke:
KFT GRZ PUBEG SNU

16 Zielflugplatz: LOWW
Voraussichtliche Gesamtflugdauer: 0215
Ausweichflugplatz: LOAN
2ter Ausweichflugplatz:

18 Sonstige Angaben:

Füge 'IFPS RTE AMDT ACPT' ins Feld 18 automatisch ein
Feld 18 Abkürzungen: -wählen-

- a) 100 m/h.
- b) 100 kt.
- c) 100 km/h.
- d) 1000 kt.

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37. Distress messages are messages...

- a) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight
- b) Concerning the operation or maintenance of facilities which are important for the safety and regularity of flight operations.
- c) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight.
- d) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.

38. Which behaviour can increase the carbon monoxide level in the blood?

- a) Alcohol consumption.
- b) Unhealthy food.
- c) Smoking.
- d) Little sleep.

39. Which statement about rubber fuel hoses is correct?

- a) They require no inspection once installed.
- b) ageing, cracks and leaks must be considered during inspection.
- c) They may be repaired with household adhesive.
- d) They are unaffected by heat, UV and operating time.

40. 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.

41. 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



42. Which statement about landing site selection after failure is correct?

- a) Only the shortest distance matters.
- b) Surface and wind are irrelevant to helicopters.
- c) A downwind approach is always best.
- d) Wind, obstacles, surface, slope and available approach path should be considered.

43. 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.

44. What is the difference in time when the sun moves 20° of longitude?

- a) 0:20 h
- b) 0:40 h
- c) 1:00 h
- d) 1:20 h

45. Which process may result in an inversion layer at about 5000 ft (1500 m) height?

- a) Widespread descending air within a high pressure area
- b) Intensive sunlight insolation during a warm summer day
- c) Ground cooling by radiation during the night
- d) Advection of cool air in the upper troposphere

46. Why is fuel checkpoint monitoring important for a PPL(H) flight?

- a) It links navigation progress with endurance management.
- 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.

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47. After flying 100 NM, the aircraft is 8 NM right of track. What approximate correction is needed to parallel the desired track?

- a) 5° right
- b) 9° left
- c) 5° left
- d) 3° right

48. The sun moves 10° of longitude. What is the difference in time?

- a) 0.4 h
- b) 0.66 h
- c) 0.33 h
- d) 1 h

49. What aerodynamic effect is most relevant? Rotor RPM starts to decay in autorotation.

- a) The altimeter setting becomes invalid.
- b) The magnetic compass becomes the primary lift source.
- c) collective should be managed to recover RPM.
- d) The aircraft mass automatically decreases.

50. Which human-factor point is most relevant? A pilot feels tingling in the fingers and dizziness after rapid breathing during a stressful event.

- a) Hyperventilation should be considered.
- b) The event has no operational relevance.
- c) The correct response is to increase workload.
- d) The pilot should ignore symptoms until after landing.

51. Which navigation facility may be used for broadcasting the ATIS?

- a) NDB
- b) VOR
- c) GPS
- d) DME

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52. Which of the following options states a correct position report?

- a) DEABC reaching "N"
- b) DEABC, "N", 2500 ft
- c) DEABC over "N" at 35
- d) DEABC over "N" in FL 2500 ft

53. 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.

54. When using direct current, electrically driven flight instruments are marked with...

- a) "DC".
- b) "AL".
- c) "CO".
- d) "EL".

55. Which of the following symptoms may indicate hypoxia?

- a) Blue discolouration of lips and fingernails
- b) Muscle cramps in the upper body area
- c) Blue marks all over the body
- d) Joint pain in knees and feet

56. The rotor blades in a shrouded tail rotor can be arranged asymmetrically to...

- a) Utilize the Coanda effect.
- b) Increase the generated thrust.
- c) Reduce the noise emissions.
- d) Reduce the production costs.

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57. Why is chart scale 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 affects distance measurement accuracy.
- d) It is replaced by passenger preference.

58. 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

59. 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.

60. 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.

61. 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.



62. How can the pitch angle on a helicopter's rotor blade be controlled?

- a) By electrical impulses
- b) By electric motors
- c) By control rods
- d) By cam rods

63. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 030° to a heading of 180°. At approximately which indicated magnetic heading should the turn be terminated?

- a) 150°.
- b) 360°.
- c) 180°.
- d) 210°.

64. The pitch angle of a tail rotor blade is changed...

- a) Cyclically
- b) Collectively
- c) Symmetrically
- d) Asymmetrically

65. Which statement about compass deviation is correct?

- a) It is the angle between true and magnetic north.
- b) It is the wind correction angle.
- c) It is the error caused by magnetic influences in the aircraft.
- d) It is the latitude scale on a chart.

66. Which of the following is NOT a risk factor for hypoxia?

- a) Smoking
- b) Diving
- c) Menstruation
- d) Blood donation

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67. Distance to the next waypoint is 60 NM and groundspeed is 90 kt. What is the estimated time en route?

- a) 34 minutes
- b) 48 minutes
- c) 40 minutes
- d) 90 minutes

68. What information is provided in the general part (GEN) of the AIP?

- a) Map icons, list of radio navigation aids, time for sunrise and sunset, airport fees, air traffic control fees
- b) Table of contents, classification of aerodromes with corresponding maps, approach charts, taxi charts, restricted and danger areas
- c) Access restrictions for aerodromes, passenger controls, requirements for pilots, licence samples and validity periods
- d) Warnings for aviation, ATS airspaces and routes, restricted and danger areas

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

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

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

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

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Response Scheme

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

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

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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: _____		