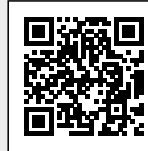


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PPL(H) - Private Pilot License - Flight Performance and Planning



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STUDENT NAME:

DATE AND TIME:

01. The term QTE means...

- a) True bearing from the aircraft to the station.
- b) Magnetic bearing from the aircraft to the station.
- c) True bearing from the station to the aircraft.
- d) Magnetic bearing from the station to the aircraft.

02. Visual illusions are mostly caused by...

- a) Colour blindness.
- b) Binocular vision.
- c) Misinterpretation of the brain.
- d) Rapid eye movements.

03. What is the correct way of establishing radio communication between D-EAZF and Dusseldorf Tower?

- a) DEAZF is calling Dusseldorf Tower
- b) Dusseldorf Tower over
- c) Dusseldorf Tower D-EAZF
- d) Tower from D-EAZF

04. Why is pressure altitude important for a PPL(H) flight?

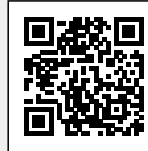
- a) It is relevant only to airline transport operations.
- b) It can be ignored when the flight remains local.
- c) It is replaced by passenger preference.
- d) It affects hover ceiling and climb performance.

05. Which action best supports safe management of chart scale?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Use the correct scale for route measurement.
- d) Ignore it when the helicopter has sufficient fuel.

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06. 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

07. What is the call sign of the aerodrome control?

- a) Aerodrome
- b) Ground
- c) Tower
- d) Control

08. Which statement about a restricted area is correct?

- a) It may be entered only in accordance with the published restrictions.
- b) It may never be entered under any circumstances.
- c) It is always uncontrolled airspace with no requirements.
- d) It exists only above FL 195.

09. True course is 080° and magnetic variation is 3° E. What is the magnetic course?

- a) 077°
- b) 083°
- c) 087°
- d) 067°

10. The saturated adiabatic lapse rate should be assumed with a mean value of:

- a) 0.6° C / 100 m.
- b) 2° C / 1000 ft.
- c) 1.0° C / 100 m.
- d) 0° C / 100 m.

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11. 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

12. The barometric altimeter indicates height above...

- a) Mean sea level.
- b) Standard pressure 1013.25 hPa.
- c) Ground.
- d) A selected reference pressure level.

13. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are TH and VAR?

- a) TH: 194°. VAR: 004° E
- b) TH: 194°. VAR: 004° W
- c) TH: 172°. VAR: 004° W
- d) TH: 172°. VAR: 004° E

14. How can the belts of a belt clutch be tightened?

- a) Approximation of two rotating plates
- b) Increase of drive shaft distance
- c) Increase of engine RPM
- d) Extension of a pneumatic cylinder

15. In which situations should a pilot use blind transmissions?

- a) When the traffic situation at an airport allows the transmission of information which does not need to be acknowledged by the ground station
- b) When a pilot has flown into cloud or fog unintentionally and therefore would like to request navigational assistance from a ground unit
- c) When no radio communication can be established with the appropriate aeronautical station, but when evidence exists that transmissions are received at that ground unit
- d) When a transmission containing important navigational or technical information is to be sent to several stations at the same time

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16. What relieves the helicopter in a low G manoeuvre?

- a) Weightlessness of the passengers during the push over
- b) Rolling movement of the helicopter to the right
- c) Increased vertical airflow through the rotor
- d) Centrifugal force in parabolic flight during the entire manoeuvre

17. Urgency messages are defined as...

- a) Messages concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- b) Messages concerning urgent spare parts which are needed for a continuation of flight and which need to be ordered in advance.
- c) Information concerning the apron personell and which imply an imminent danger to landing aircraft.
- d) Messages concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.

18. What is necessary under Part-FCL after differences training for helicopters?

- a) An application for renewal must be filed for the competent authority in a prescribed form and manner
- b) The logbook of the pilot or an equivalent document must be signed by the flight instructor
- c) A flight order for solo flights must be submitted to the competent authority by the instructor
- d) The pilot must pass a written line check exam in an aviation school

19. A helicopter with a rotor turning in an anti-clockwise direction seen from above, hovers sideways to the right. What is the azimuth angle where the main rotor blades have the biggest pitch angle?

- a) 270°
- b) 180°
- c) 90°
- d) 0°

20. Measured pressure distribution in MSL and corresponding frontal systems are displayed by the...

- a) Hypsometric chart
- b) Prognostic chart.
- c) Significant Weather Chart (SWC).
- d) Surface weather chart.

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21. 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.

22. What does a readability of 2 indicate?

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

23. 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 %

24. Which statement about an EASA PPL(H) is correct?

- a) It permits non-commercial helicopter operations within the privileges and ratings held.
- b) It automatically permits commercial passenger transport.
- c) It is valid only in the State where training was completed.
- d) It replaces the need for a valid medical certificate.

25. Why is pressure tendency 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 can indicate changing weather systems.

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26. 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.

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

- a) Strong wind
- b) A high cloud base
- c) Strong updrafts
- d) An inversion layer

28. 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

29. Basic empty mass is 685 kg, occupants are 75 kg and 82 kg, usable fuel for departure is 40 kg and MTOM is 900 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) The result cannot be assessed because empty mass is irrelevant.
- d) Yes, the calculated take-off mass is within the limit.

30. What is the best combination of traits with respect to the individual attitude and behaviour for a pilot?

- a) Extroverted - stable
- b) Introverted - unstable
- c) Extroverted - unstable
- d) Introverted - stable

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31. 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.

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

- a) Height of ionosphere
- b) Twilight error
- c) Altitude
- d) Shoreline effect

33. A landing conducted in response to circumstances forcing the aircraft to land is a / an...

- a) Urgent landing.
- b) Precautionary landing.
- c) Field or out landing.
- d) Emergency landing.

34. Regularity messages are messages...

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

35. Which statement about a precautionary landing is correct?

- a) It is used only after engine stoppage.
- b) It is prohibited for private pilots.
- c) It is always more dangerous than continuing.
- d) It should be planned early when conditions are deteriorating.

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36. 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.

37. Which statement about high pressure is correct?

- a) It always produces thunderstorms.
- b) It means pressure decreases towards the centre.
- c) It is the same as a warm front.
- d) It is often associated with subsidence and more stable air.

38. What is the nature of the flight shown in the given ATC flight plan? Use figure (PFP-051a)

PFP-051a			
3 MESSAGE TYPE	7 AIRCRAFT IDENTIFICATION	8 FLIGHT RULES	TYPE OF FLIGHT
<=(FPL	OEABC	V	G <=
9 NUMBER	TYPE OF AIRCRAFT	WAKE TURBULENCE CAT.	10 EQUIPMENT
	DV20	L	ORV/C <=
13 DEPARTURE AERODROME	TIME		
LOWK	2000 <=		
15 CRUISING SPEED	LEVEL	ROUTE	
N0100	F095	KFT GRZ PUBEG SNU	
			<=
16 DESTINATION AERODROME	TOTAL EET	ALTN AERODROME	2ND ALTN AERODROME
LOWW	0215	LOAN	<=
18 OTHER INFORMATION			
			<=

- a) Flight under instrument flight rules.
- b) Border crossing flight.
- c) Night flight under visual flight rules.
- d) Traffic pattern under visual flight rules.

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PPL(H) - Private Pilot License - Flight Performance and Planning



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39. Which statement about a Radio Mandatory Zone is correct?

- a) It always requires an IFR clearance.
- b) It allows flight without radio if below 1,000 ft AGL.
- c) It is used only for military aircraft.
- d) The pilot must comply with the published radio communication requirements.

40. A helicopter approach is conducted into the wind because...

- a) It reduces groundspeed and increases the landing distance.
- b) It increases the true airspeed and decreases the landing distance.
- c) This provides more control at low groundspeeds.
- d) This avoids wake turbulence near the touchdown zone.

41. 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

42. Which statement about a Certificate of Registration is correct?

- a) It identifies the State and registration of the aircraft.
- b) It proves that all maintenance tasks are complete.
- c) It is the pilot's medical certificate.
- d) It authorises a pilot to carry passengers.

43. The on-board equipment of the secondary surveillance radar (SSR) is called...

- a) Transponder
- b) Interrogator
- c) Decoder
- d) Course indicator

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PPL(H) - Private Pilot License - Flight Performance and Planning



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44. Which statement about high gross mass is correct?

- a) It always lowers power required.
- b) It eliminates retreating blade stall risk.
- c) It has no effect on hover ceiling.
- d) It increases power required and can reduce performance margins.

45. Which statement about chip detectors is correct?

- a) They measure fuel octane rating.
- b) They set the transponder code.
- c) They prevent carburettor icing.
- d) They can warn of metallic contamination in a gearbox or transmission system.

46. What is the meaning of the abbreviation "AIREP"?

- a) Aircraft report
- b) Aeronautical information report
- c) Aeronautical instrument requirement report
- d) Automatic identification report

47. Wake turbulence behind a preceding aircraft is particularly strong...

- a) When the aircraft uses high thrust at low mass.
- b) At high aircraft mass.
- c) At low aircraft mass.
- d) When the aircraft uses low thrust at high speed.

48. Which statement about METAR is correct?

- a) It is a long-term climate forecast.
- b) It is an aerodrome routine weather report.
- c) It is a maintenance release.
- d) It is an aircraft registration document.

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PPL(H) - Private Pilot License - Flight Performance and Planning



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49. Why is hover ceiling 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 depends on mass, density altitude, wind and power available.

50. Regarding the communication model, how can the use of the same code during radio communication be ensured?

- a) By a particular frequency allocation
- b) By the use of radio phraseology
- c) By using radios certified for aviation use only
- d) By the use of proper headsets

51. An acceleration during a straight horizontal flight can lead to the illusion of...

- a) A bank.
- b) A descent.
- c) A climb.
- d) An inverted flight.

52. A delta-three hinge is used to allow...

- a) For a decreased pitch angle at an upwards flapping blade
- b) The advancing blade to flap up about the hinge
- c) The advancing blade to lead about the hinge
- d) The advancing blade to drag about the hinge

53. What is the main workload effect of increased stability in a helicopter?

- a) It increases the required control forces in all manoeuvres.
- b) It reduces the pilot-in-command's workload.
- c) It improves control under all load factors.
- d) It increases the maximum permitted helicopter mass.

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54. 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

55. The term "balance arm" in the context of a mass and balance calculation defines the...

- a) Point through which the force of gravity is said to act on a mass.
- b) Point on the longitudinal axis of an aircraft or its extension from which the centres of gravity of all masses are referenced.
- c) Distance of a mass from the centre of gravity.
- d) Distance from the datum to the centre of gravity of a mass.

56. What pressure pattern may result from cold-air inflow in high tropospheric layers?

- a) Alternating pressure
- b) Formation of a large ground low
- c) Formation of a high in the upper troposphere
- d) Formation of a low in the upper troposphere

57. Which statement about performance planning is correct?

- a) It should use the approved flight manual data and the actual conditions.
- b) It may be based only on passenger estimates.
- c) It is needed only for commercial flights.
- d) It replaces pre-flight inspection.

58. Which statement about threat and error management is correct?

- a) It is used only by air traffic control.
- b) It aims to anticipate threats, trap errors and manage undesired aircraft states.
- c) It is a maintenance inspection system.
- d) It applies only to commercial multi-crew operations.

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PPL(H) - Private Pilot License - Flight Performance and Planning



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59. 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.

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

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

61. Given values: Calculated take-off mass = 746 kg calculated CG = 37.1 cm fuel burn = 30.5 l on station 45 cm. Where is the CG situated after the landing?

- a) 37.5 cm
- b) 36.3 cm
- c) 36.9 cm
- d) 37.2 cm

62. Which statement about wind shear is correct?

- a) It is the same as magnetic variation.
- b) It is a change in wind speed or direction over a short distance.
- c) It occurs only above FL 100.
- d) It always improves climb performance.

63. 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

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64. Why is nutrition 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 helps maintain energy and decision quality.

65. Which statement about a Certificate of Airworthiness is correct?

- a) It is the operator's insurance policy.
- b) It confirms that the aircraft conforms to an approved airworthiness standard.
- c) It is issued by ATC before each flight.
- d) It replaces the journey log.

66. Full deflection of the course deviation indicator (CDI) means that the aircraft is located at least...

- a) 10° beside the selected course
- b) 2° beside the selected course.
- c) 2 NM beside the selected course.
- d) 10 NM beside the selected course.

67. Which action best supports safe management of landing performance margin?

- a) Delay the decision until after take-off.
- b) Check wind, surface, obstacles and required power.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

68. What is the meaning of the radiotelephony phrase "Affirm"?

- a) Yes.
- b) No.
- c) Disregard my last transmission.
- d) Emergency traffic only.

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69. Which Q-code is used for the true bearing from the station?

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

70. Which Q-code is used for the true bearing to the station?

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

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Response Scheme

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

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