

# Exam simulation

PPL(H) - Private Pilot License - Air Law



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STUDENT NAME:

DATE AND TIME:

**01. Distance to the next waypoint is 90 NM and groundspeed is 120 kt. What is the estimated time en route?**

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- a) 39 minutes
- b) 53 minutes
- c) 45 minutes
- d) 80 minutes

**02. Which statement about a NOTAM affecting the destination is correct?**

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- a) It can be ignored by private pilots.
- b) It automatically cancels the flight plan.
- c) It must be considered before deciding whether the destination remains suitable.
- d) It is relevant only to IFR traffic.

**03. Which of the following options does NOT stimulate motion sickness (disorientation)?**

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- a) Non-accelerated straight and level flight
- b) Turbulence in level flight
- c) Head movements during turns
- d) Flying under the influence of alcohol

**04. Basic empty mass is 700 kg, occupants are 65 kg and 72 kg, usable fuel for departure is 40 kg and MTOM is 880 kg. Is the mass within limits?**

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- 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.

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

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- 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

## 06. What are the air masses that Central Europe is mainly influenced by?

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- a) Polar cold air and tropical warm air
- b) Arctic and polar cold air
- c) Tropical and arctic cold air
- d) Equatorial and tropical warm air

## 07. What is an appropriate reaction when a passenger during cruise flight suddenly feels uncomfortable?

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- a) Avoid conversation and choose a higher airspeed
- b) Switch on the heater blower and provide thermal blankets
- c) Give additional oxygen and avoid low load factors
- d) Adjust cabin temperature and prevent excessive bank

## 08. For exercising PPL(H) privileges, which statement is correct?

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- a) A valid passport alone is sufficient.
- b) the pilot must comply with licence, rating and medical validity requirements.
- c) The requirement applies only to commercial pilots.
- d) The aircraft insurance certificate replaces pilot recency.

## 09. Which statement about lateral centre of gravity is correct?

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- a) It is relevant only to gliders.
- b) It is ignored when fuel is full.
- c) It is important in helicopters because asymmetric loading can affect control margins.
- d) It is controlled by ATC clearance.

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## 10. Which is the colour of runway edge lights?

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- a) White
- b) Blue
- c) Red
- d) Green

## 11. Which human-factor point is most relevant? A pilot continues toward deteriorating weather because the destination is close.

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

## 12. Why is hydration important for a PPL(H) flight?

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- a) It is relevant only to airline transport operations.
- b) It can be ignored when the flight remains local.
- c) It supports concentration and reduces fatigue risk.
- d) It is replaced by passenger preference.

## 13. What is the correct way of acknowledging the instruction "Call Hamburg Tower on 121.275"?

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- a) 121.275
- b) Call 121.275
- c) Call tower
- d) Call tower on 121.275

## 14. A helicopter burns 48 l/h. Planned flight time is 25 minutes and required reserve is 20 l. What minimum fuel should be planned?

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- a) 20 l
- b) 40 l
- c) 30 l
- d) 48 l

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## 15. Which statement about chip detectors is correct?

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- 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.

## 16. Weather phenomena are most common to be found in which atmospheric layer?

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- a) Troposphere
- b) Tropopause
- c) Stratosphere
- d) Thermosphere

## 17. A wind shear is...

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- 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.

## 18. What action is necessary in a modern helicopter during the transition to a horizontal turn?

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- a) A control column movement forward or raising the collective
- b) Open the throttle in a helicopter with a rotor turning in an anti-clockwise direction seen from above
- c) Open the throttle in a helicopter with a rotor turning in a clockwise direction seen from above
- d) A control column movement backward or raising the collective

## 19. The centre of gravity has to be located...

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- a) Behind the rear CG limit.
- b) Right of the lateral CG limit.
- c) Between the front and the rear CG limit.
- d) In front of the front CG limit.

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**20. A helicopter burns 40 l/h. Planned flight time is 35 minutes and required reserve is 15 l. What minimum fuel should be planned?**

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- a) 39 l
- b) 24 l
- c) 31 l
- d) 47 l

**21. Which statement about a filed VFR flight plan is correct?**

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- a) It should be closed or arrival reported where required to avoid unnecessary alerting action.
- b) It closes automatically when the engine is shut down everywhere.
- c) It is required for every local flight in uncontrolled airspace.
- d) It cancels all radio requirements.

**22. Which statement about hover out of ground effect is correct?**

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- a) It always requires less power than IGE hover.
- b) It is possible at any mass and temperature.
- c) It is unaffected by altitude.
- d) It requires more power than hovering in ground effect.

**23. When do you expect wind shear?**

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- 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

**24. Which statement about an engine failure in cruise is correct?**

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- a) Enter autorotation and follow the flight manual emergency procedure.
- b) Increase collective to maintain altitude indefinitely.
- c) Switch off the rotor brake.
- d) Ignore rotor RPM until landing.

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**25. True course is 350° and magnetic variation is 5° W. What is the magnetic course?**

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- a) 345°
- b) 005°
- c) 175°
- d) 355°

**26. In flight, a little smoke emerges from behind the instrument panel. An electrical fire is suspected. Which action, with respect to the pilot's operating manual, should be taken?**

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- a) Shut down the engine
- b) Turn off the heat
- c) Use the fire extinguisher
- d) Turn off the master switch

**27. Magnetic heading is 100° and compass deviation is 3° E. What compass heading should be flown?**

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- a) 103°
- b) 112°
- c) 097°
- d) 082°

**28. Which is the purpose of the altimeter subscale?**

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- a) To set the reference level for the altitude decoder of the transponder
- b) To adjust the altimeter reading for non-standard temperature
- c) To correct the altimeter reading for system errors
- d) To reference the altimeter reading to a predetermined level such as mean sea level, aerodrome level or pressure level 1013.25 hPa

**29. Which of the stated relationships between lift and drag applies best for a flying helicopter (lift: drag)?**

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- a) 1: 45
- b) 1: 2
- c) 2: 1
- d) 45: 1

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## 30. Which components do rotor blades made of synthetic material contain?

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- a) Spar of lead and synthetic material, filling material and outer skin of synthetic material, erosion protection of stainless steel
- b) Spar of synthetic material, filling material and outer skin of synthetic material, erosion protection of aluminum
- c) Spar of aluminum and synthetic material, filling material and outer skin and erosion protection of synthetic material
- d) Spar of stainless steel, filling material and outer skin and erosion protection of synthetic material

## 31. Which statement about Part-FCL is correct?

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- 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.

## 32. Magnetic heading is 075° and compass deviation is 2° E. What compass heading should be flown?

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- a) 073°
- b) 077°
- c) 088°
- d) 058°

## 33. What does the octane rating or fuel grade describe?

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- a) Flame front speed
- b) Anti-knock rating
- c) Combustion temperature
- d) Ignition timing

## 34. What should a PPL(H) pilot do when operating close to a RMZ?

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- 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.

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## 35. The trim is used to...

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- a) Adapt the control force.
- b) Lock control elements.
- c) Move the centre of gravity.
- d) Increase adverse yaw.

## 36. In a METAR, "(moderate) showers of rain" are designated by the identifier...

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- a) TS
- b) +RA
- c) SHRA
- d) +TSRA

## 37. Which statement about orographic cloud is correct?

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- 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.

## 38. Why is unusual vibration important for a PPL(H) flight?

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- a) It is relevant only to airline transport operations.
- b) It can indicate a mechanical problem.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

## 39. The neutral point is a point where...

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- 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

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## 40. Given: QTE: 248° VAR: 10° W The QDR equals...

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- a) 078°
- b) 258°
- c) 238°
- d) 068°

## 41. Why is post-landing shutdown important for a PPL(H) flight?

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- a) It is relevant only to airline transport operations.
- b) It should follow the flight manual sequence.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

## 42. Which statement about a rhumb line is correct?

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- a) A rhumb line is a great circle intersecting the equator with 45° angle
- b) The centre of a complete cycle of a rhumb line is always the Earth's centre
- c) A rhumb line cuts each meridian at the same angle
- d) The shortest track between two points along the Earth's surface follows a rhumb line

## 43. When should turns at low altitudes above villages be avoided with regard to noise abatement procedures?

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- a) In horizontal flight
- b) In climb
- c) In descent
- d) During the approach

## 44. A spider control...

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- a) Feeds fuel by the rotational movement of pistons with various lengths.
- b) Prevents the overlay of collective and periodic control inputs on the main rotor.
- c) Changes the ignition timing of the magneto ignition during start-up.
- d) Changes the pitch angle of the rotor blades via an internal control rod.

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

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

**46. For what approximate time period can the short-time memory store information?**

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- a) 10 to 20 seconds
- b) 30 to 40 seconds
- c) 3 to 7 seconds
- d) 35 to 50 seconds

**47. The empty weight and the corresponding centre of gravity (CG) of an aircraft are initially determined...**

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- a) Through data provided by the aircraft manufacturer.
- b) For one aircraft of a type only, since all aircraft of the same type have the same mass and CG position.
- c) By weighing.
- d) By calculation.

**48. How should gusty wind be considered during helicopter performance planning?**

---

- a) It is ignored below 10 kt.
- b) should be considered because control margins and approach stability can be affected.
- c) It changes aircraft mass but not performance.
- d) It removes the need to check the flight manual.

**49. Which statement about wire hazards is correct?**

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- 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.

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## 50. 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

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

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- 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

## 52. Which statement about ground effect is correct?

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- a) It reduces induced flow and power required when hovering close to the surface.
- b) It increases power required compared with OGE hover.
- c) It is strongest at high altitude cruise.
- d) It affects only fixed-wing aircraft.

## 53. Which statement about dew point spread is correct?

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- a) A small spread indicates air close to saturation.
- b) A large spread always means fog is forming.
- c) It is the same as wind chill.
- d) It measures cloud base in feet directly.

## 54. With Central European Summer Time (CEST) given as UTC+2, what UTC time corresponds to 1600 CEST?

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- a) 1500 UTC.
- b) 1400 UTC.
- c) 1600 UTC.
- d) 1700 UTC.

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## 55. For carrying passengers by day, which statement is correct?

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- a) A valid passport alone is sufficient.
- b) The requirement applies only to commercial pilots.
- c) recent take-offs and landings must be completed as required.
- d) The aircraft insurance certificate replaces pilot recency.

## 56. True course is $245^\circ$ and magnetic variation is $7^\circ$ W. What is the magnetic course?

---

- a)  $238^\circ$
- b)  $262^\circ$
- c)  $242^\circ$
- d)  $252^\circ$

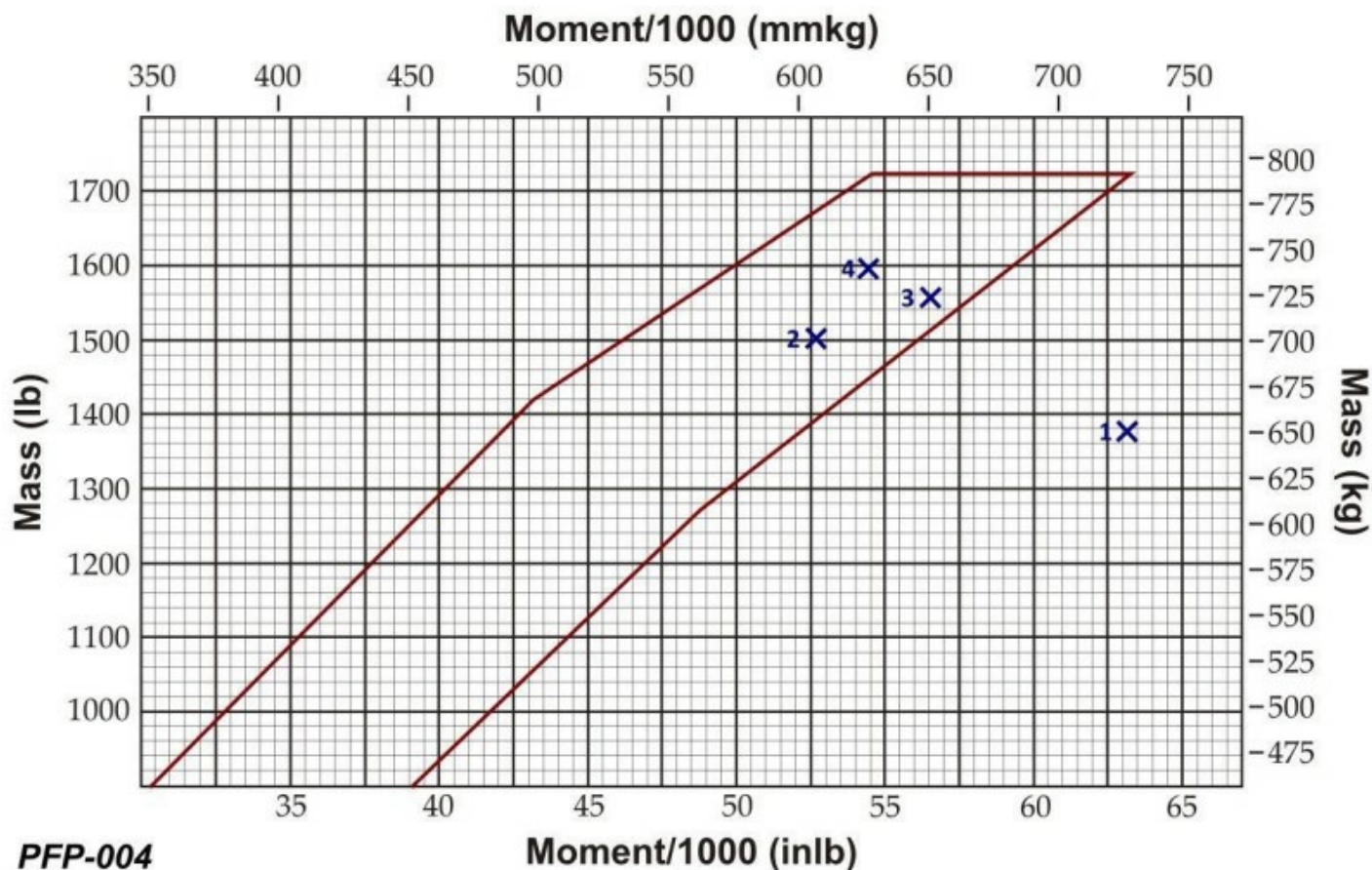
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57. For the purpose of a flight preparation the pilot calculates a total take-off mass of 725 kg and a total moment of 650 mmkg. Which cross marks the centre of gravity (CG)? Use figure (PFP-004)



- a) 2
- b) 1
- c) 3
- d) 4

58. The average decrease of blood alcohol level for an adult in one hour is approximately...

- a) 0.3 percent
- b) 0.01 percent
- c) 0.1 percent
- d) 0.03 percent

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## 59. Which statement about VFR flight is correct?

---

- a) It is defined by the aircraft type only.
- b) It is always flown without radio.
- c) It must be conducted in accordance with visual flight rules and applicable VMC minima.
- d) It is permitted only at night.

## 60. Which statement about brownout or whiteout is correct?

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- 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.

## 61. Urgency messages are messages...

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

## 62. Why is lost procedure important for a PPL(H) flight?

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- 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.

## 63. Why is passenger mass accuracy important for a PPL(H) flight?

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- 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.

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## 64. Radio waves within the LF and MF range (e.g. NDB) travel as...

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- a) Space wave (quasi-optical)
- b) Sky wave and as ground / surface wave.
- c) Sky wave.
- d) Ground / surface wave.

## 65. During lift-off the helicopter rotates much more than expected. This indicates that...

---

- a) The helicopter is overloaded.
- b) The centre of gravity is much more aft than expected.
- c) The centre of hub is overhead of the centre of gravity.
- d) The power required equals the power available.

## 66. The altimeter has to be set to what value in order to show zero on ground?

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- a) QFE
- b) QNE
- c) QTE
- d) QNH

## 67. Which statement about tail rotor failure is correct?

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- a) Always increase power to maximum.
- b) Apply rotor brake in flight.
- c) Continue to destination normally.
- d) Use the specific emergency procedure for the type and flight condition.

## 68. 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.

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## 69. Under which circumstances is it more likely to accept higher risks?

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- a) Due to group-dynamic effects
- b) During check flights due to a high level of nervousness
- c) During flight planning when excellent weather is forecast
- d) If there is not enough information available

## 70. During an approach the aircraft experiences wind shear with an increasing headwind. If the pilot does not make any correction, how do the approach path and the indicated airspeed (IAS) change?

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- a) Path is higher, IAS increases
- b) Path is higher, IAS decreases
- c) Path is lower, IAS increases
- d) Path is lower, IAS decreases

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## Response Scheme

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

01: **C**

02: **C**

03: **A**

04: **D**

05: **D**

06: **A**

07: **D**

08: **B**

09: **C**

10: **A**

11: **B**

12: **C**

13: **A**

14: **B**

15: **D**

16: **A**

17: **A**

18: **D**

19: **C**

20: **A**

21: **A**

22: **D**

23: **C**

24: **A**

25: **D**

26: **D**

27: **C**

28: **D**

29: **D**

30: **A**

31: **B**

32: **A**

33: **B**

34: **A**

35: **A**

36: **C**

37: **C**

38: **B**

39: **D**

40: **B**

41: **B**

42: **C**

43: **B**

44: **D**

45: **B**

46: **A**

47: **C**

48: **B**

49: **B**

50: **D**

51: **D**

52: **A**

53: **A**

54: **B**

55: **C**

56: **D**

57: **C**

58: **B**

59: **C**

60: **D**

61: **B**

62: **D**

63: **A**

64: **B**

65: **B**

66: **A**

67: **D**

68: **D**

69: **A**

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: _____		