

# Exam simulation

PPL(H) - Private Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

## 01. Why is surface condition important for a PPL(H) flight?

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- a) Dust, snow, slope or loose material can affect safety.
- 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.

## 02. What factors may indicate a tendency to fog formation?

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- a) Low spread, increasing temperature
- b) Low pressure, increasing temperature
- c) Strong winds, decreasing temperature
- d) Low spread, decreasing temperature

## 03. Where does the inclination reach its lowest value?

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- a) At the geographic poles
- b) At the geographic equator
- c) At the magnetic equator
- d) At the magnetic poles

## 04. Above the friction layer, with a prevailing pressure gradient, the wind direction is...

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- a) Perpendicular to the isobars.
- b) Perpendicular to the isohypses.
- c) At an angle of 30° to the isobars towards low pressure.
- d) Parallel to the isobars.

## 05. Which statement about an ELT is correct?

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- a) It is intended to transmit a distress signal after an accident or when manually activated.
- b) It is an engine temperature limiter.
- c) It replaces a transponder.
- d) It is used to select radio volume.

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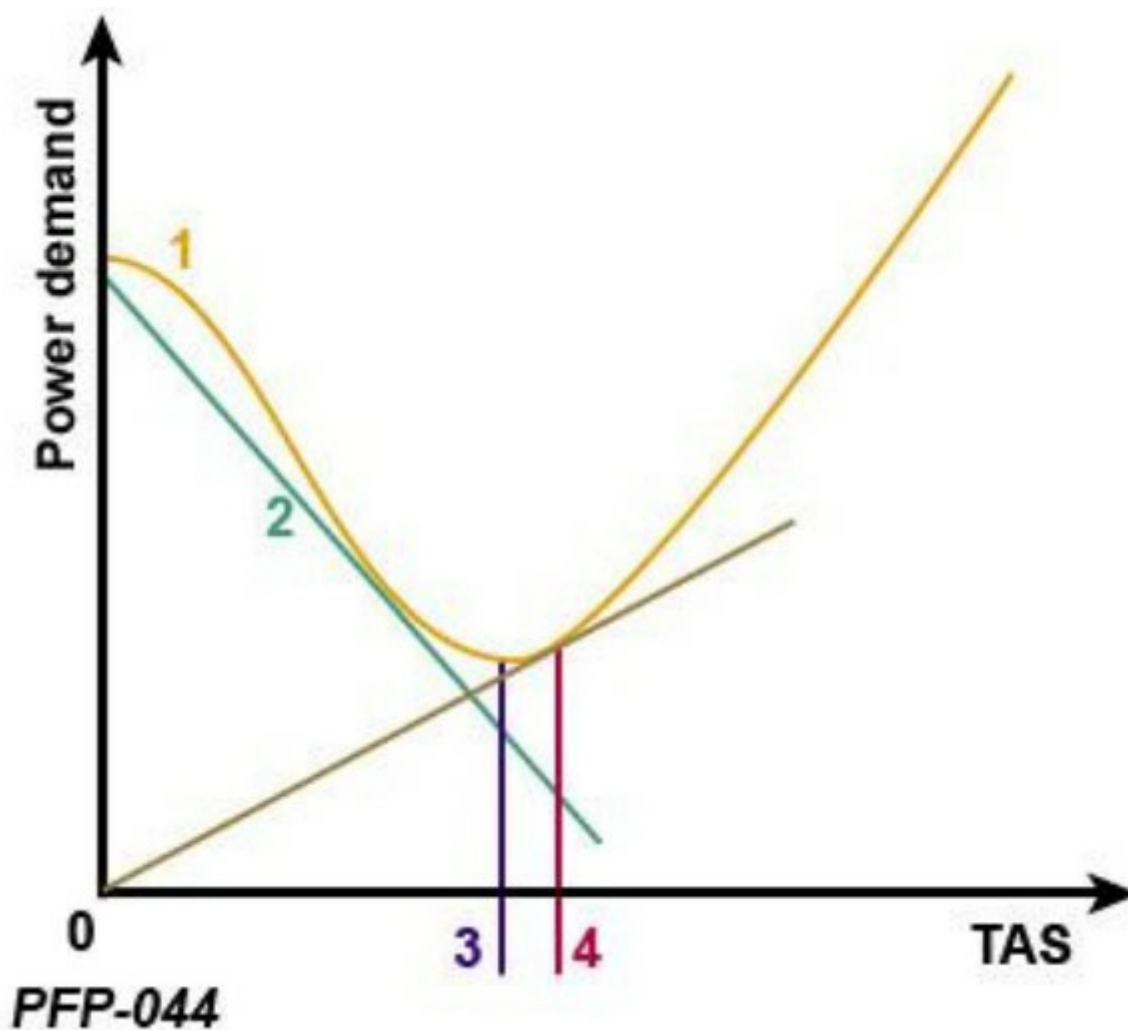


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## 06. Which action best supports safe management of airspace boundary awareness?

- a) Delay the decision until after take-off.
- b) Track position relative to controlled and restricted airspace.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

## 07. Which point indicates the speed for maximum endurance? Use figure (PFP-044)



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

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## 08. What is the minimum age to start a private pilot training at a flight school?

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

## 09. What is shown on the printed sign? Use figure (ALW-019)

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- a) Parking position A
- b) Point A on a taxiway
- c) Part A of the runway
- d) Taxiway A

## 10. Which statement about the AIP is correct?

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- a) It is a private aircraft logbook.
- b) It is valid only for one day.
- c) It contains lasting aeronautical information published by a State.
- d) It is a passenger manifest.

## 11. What must be considered for cross-border flights?

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



**12. Which of the following frequencies lies in the aviation VHF voice communication band?**

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- a) 118.75 MHz
- b) 327.25 MHz
- c) 327.25 kHz
- d) 118.75 kHz

**13. 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.

**14. Air traffic control service is conducted by which services?**

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- 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)

**15. What is the safest operational response? The planned landing area has people close to the touchdown point.**

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- a) Continue as planned because helicopters can land anywhere.
- b) Do not land until the area is clear and safe.
- c) Delay all action until reaching destination.
- d) Ask passengers to decide the next action.

**16. Why is leaning the fuel mixture without an EGT indicator very dangerous in helicopters?**

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- a) The risk of engine stoppage exists
- b) The risk of vapour lock in the reserve tank exists
- c) The electric fuel pump overheats
- d) The power output from the engine is growing rapidly

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**17. What is the percentage of oxygen in the atmosphere at 6000 ft?**

- a) 18.9 %
- b) 12 %
- c) 78 %
- d) 21 %

**18. The aircraft is on radial... Use figure (NAV-024)**



**NAV-024**

- a) 060°.
- b) 246°.
- c) 066°.
- d) 234°.

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## 19. What should a PPL(H) pilot do when planning to cross a danger area?

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- a) Assume it is inactive unless ATC calls first.
- b) check activity status and avoid or cross only when safe and permitted.
- c) Switch off the transponder to reduce workload.
- d) Ignore it when flying VFR below 1,000 ft AGL.

## 20. Which statement about a turbine engine TOT or TGT limit is correct?

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- a) It protects the engine from excessive gas temperature.
- b) It is a navigation bearing.
- c) It controls radio squelch.
- d) It measures cabin oxygen only.

## 21. Which statement about the right of way in head-on traffic is correct?

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- a) Both aircraft should alter course to the right.
- b) The lighter aircraft always climbs.
- c) Only the aircraft on the left changes heading.
- d) Both aircraft alter course to the left.

## 22. Which statement about a circuit breaker is correct?

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- a) It is used to adjust blade tracking.
- b) It increases fuel pressure mechanically.
- c) It sets the altimeter to QFE.
- d) It protects an electrical circuit from excessive current.

## 23. Which statement about a piston engine manifold pressure gauge is correct?

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- a) It indicates magnetic variation.
- b) It indicates induction pressure and is related to engine power.
- c) It measures rotor blade coning.
- d) It displays DME distance.

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## 24. Which statement about situational awareness is correct?

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- 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.

## 25. Which statement about temperature inversion is correct?

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- a) It is a layer where temperature increases with height.
- b) It is a layer where pressure increases with height.
- c) It always improves vertical mixing.
- d) It is the same as a cold front.

## 26. 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.

## 27. What should be considered regarding a scheduled flight over water, when land cannot be reached in case of an emergency landing?

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- a) The flight plan has to contain the exact waypoints
- b) Contact to the nearest ATC shall consist during the whole flight
- c) Transponder code 7600 has to be set during the whole flight
- d) For all passengers there must be life jackets or lifeboats present

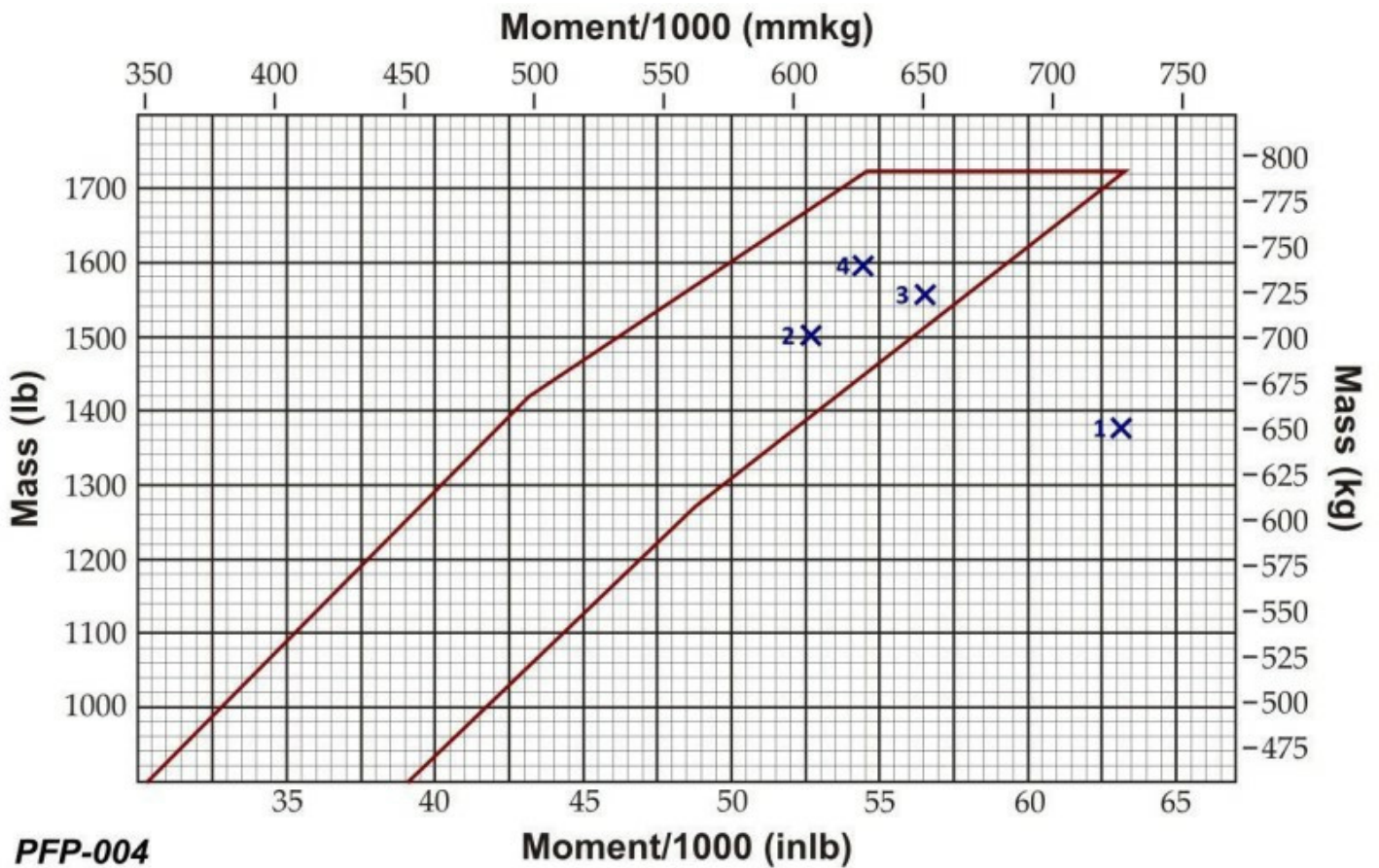
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28. For the purpose of a flight preparation the pilot calculates a total take-off mass of 725 kg and a total moment of 650 mmkg. Which cross marks the centre of gravity (CG)? Use figure (PFP-004)



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

29. Which statement about spatial disorientation is correct?

- a) It occurs only in multi-engine aircraft.
- b) It is prevented by ignoring instruments.
- c) It can occur when visual references are poor or misleading.
- d) It improves with fatigue.

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## 30. The beam theory enables statements about the...

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- a) Energy conversion in an autorotation
- b) Power requirements during hover flight
- c) Transition lift close to the ground
- d) Drag in cruise flight

## 31. What needs to be done to compensate a tail-heavy centre of gravity in a helicopter?

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- a) Remove all unnecessary attachment parts and covers
- b) Remove unneeded equipment from the cockpit
- c) Add additional fuel to the fuel tank behind the main rotor mast
- d) Add additional load in the front of the helicopter cabin

## 32. Which statement about maximum take-off mass is correct?

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- a) It may be exceeded in cold weather.
- b) It applies only after landing.
- c) It is advisory for private flights.
- d) It must not be exceeded for the planned operation.

## 33. A precautionary landing is a landing...

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- a) Conducted in response to circumstances forcing the aircraft to land.
- b) Conducted with the flaps retracted.
- c) Conducted in an attempt to sustain flight safety.
- d) Conducted without power from the engine.

## 34. A flight level is a...

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- a) True altitude.
- b) Pressure altitude.
- c) Altitude above ground.
- d) Density altitude.

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## 35. 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.

## 36. Surface temperature is 16°C and dew point is 8°C. Using the common rule of thumb, what is the approximate convective cloud base?

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- a) About 2400 ft AGL
- b) About 4200 ft AGL
- c) About 3200 ft AGL
- d) About 800 ft AGL

## 37. Which statement about the vestibular system is correct?

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- a) It always gives reliable attitude information in IMC.
- b) It can create misleading sensations during acceleration or turns.
- c) It replaces the attitude indicator.
- d) It is unaffected by head movement.

## 38. Which statement about passenger briefing is correct?

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- a) It should include seat belts, doors, emergency exits and relevant safety actions.
- b) It is required only for commercial flights.
- c) It may be omitted for short flights.
- d) It is replaced by the weather briefing.

## 39. What relieves the helicopter in a low G manoeuvre?

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- 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

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## 40. Wake turbulence is caused by...

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- 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.

## 41. Which statement about rotor RPM decay is correct?

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- a) It increases lift indefinitely.
- b) It is corrected by raising collective in every case.
- c) It can reduce lift and control margin and must be corrected promptly.
- d) It is unrelated to safety.

## 42. Using primary ground radar, the direction of the aircraft in relation to the antenna is determined by...

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- a) The orientation of the antenna.
- b) The frequency shift of the received pulse.
- c) Time measurement.
- d) The pulse pair interval.

## 43. The centre of gravity (CG) defines...

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- a) The point on the longitudinal axis or its extension from which the centres of gravity of all masses are referenced.
- b) The point through which the force of gravity is said to act on a mass.
- c) The distance from the datum to the position of a mass.
- d) The product of mass and balance arm.

## 44. What should a PPL(H) pilot do when operating close to a danger area?

---

- a) Assume it is inactive unless ATC calls first.
- b) check activity status and avoid or cross only when safe and permitted.
- c) Switch off the transponder to reduce workload.
- d) Ignore it when flying VFR below 1,000 ft AGL.

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## 45. Which type of cloud is associated with prolonged rain?

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- a) Cumulonimbus
- b) Nimbostratus
- c) Cirrostratus
- d) Altocumulus

## 46. What temperatures are most dangerous with respect to airframe icing?

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- a) 0° to -12° C
- b) +20° to -5° C
- c) +5° to -10° C
- d) -20° to -40° C

## 47. The term "moment" with regard to a mass and balance calculation is referred to as...

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- a) Quotient of a mass and a balance arm.
- b) Difference of a mass and a balance arm.
- c) Sum of a mass and a balance arm.
- d) Product of a mass and a balance arm.

## 48. Why is pre-take-off briefing important for a PPL(H) flight?

---

- a) It prepares the pilot for abnormal actions and escape routes.
- 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.

## 49. What is the meaning of the abbreviation "TRA"?

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- a) Transponder Area
- b) Temporary Reserved Airspace
- c) Terminal Area
- d) Temporary Radar Routing Area



## 50. What is the call sign of the aerodrome control?

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

## 51. The barometric altimeter with QFE setting indicates...

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- a) Height above standard pressure 1013.25 hPa.
- b) Height above the pressure level at aerodrome elevation.
- c) True altitude above MSL.
- d) Height above MSL.

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

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- 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

## 53. 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

## 54. Which statement about headwind for take-off is correct?

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- a) It always reduces climb performance.
- b) It has no effect on the rotor disc.
- c) It makes the air less dense.
- d) It normally improves take-off performance compared with still air.

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## 55. A heading of 285 degrees is correctly transmitted as...

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- a) Two eight five.
- b) Two hundred eight five
- c) Two hundred eighty-five.
- d) Two eight five hundred.

## 56. Which action best supports safe management of fire after landing?

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- a) Shut down and evacuate according to procedure.
- 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.

## 57. Which altitude is displayed on the altimeter when set to a specific QNH?

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- a) Altitude in relation to mean sea level
- b) Altitude in relation to the air pressure at the reference aerodrome
- c) Altitude in relation to the 1013.25 hPa datum
- d) Altitude in relation to the highest elevation within 10 km

## 58. What is the safest operational response? During final approach, dust begins to obscure the landing reference.

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- a) Continue as planned because helicopters can land anywhere.
- b) Delay all action until reaching destination.
- c) Initiate the planned rejected landing or go-around if visual reference is becoming inadequate.
- d) Ask passengers to decide the next action.

## 59. What is the purpose of a belt clutch in the drive system?

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- a) It allows the displacement of the ignition timing during start-up
- b) It connects or disconnects the transmission from the engine to the main rotor gearbox
- c) It prevents blade movements in gusty wind conditions by blocking the drive shaft
- d) It prevents the mechanical blocking of the main rotor during autorotation



**60. Which statement about slope operations is correct?**

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- a) They are limited only by passenger comfort.
- b) They require checking the helicopter limitations and available control margin.
- c) They remove the need for wind assessment.
- d) They are always safer than level ground operations.

**61. Which rotor blade material enables the construction of hingeless rotor heads?**

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- a) Aluminium
- b) Titan
- c) Timber
- d) Plastic

**62. Regarding the type of cloud, precipitation is classified as...**

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- a) Showers of snow and rain
- b) Rain and showers of rain
- c) Light and heavy precipitation
- d) Prolonged rain and continuous rain

**63. During lift-off the helicopter rotates much more than expected. This indicates that...**

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- 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.

**64. True course is 120° and magnetic variation is 5° E. What is the magnetic course?**

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- a) 125°
- b) 105°
- c) 115°
- d) 295°



**65. Which statement about induced drag is correct?**

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- a) It is caused only by wheel brakes.
- b) It decreases to zero in all climbs.
- c) It is associated with producing lift.
- d) It is a magnetic compass error.

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

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- 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

**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. The hydraulic pump of the control system is driven by the...**

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- a) Main rotor gearbox.
- b) Additional aggregate.
- c) Engine.
- d) Alternator.

**69. How do manufacturers reduce the power output of their engines for use in helicopters?**

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- a) Adjust the ignition timing
- b) Decrease the shaft RPM
- c) Reduce the combustion chamber
- d) Limit the fuel flow

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

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- 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

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## Response Scheme

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

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