

# Exam simulation

PPL(H) - Private Pilot License - Operational Procedures



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STUDENT NAME:

DATE AND TIME:

## 01. What condition has to be met during a Special VFR flight?

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- a) Visual reference to the terrain
- b) A minimum distance to clouds of 2000 m
- c) At least 500 m ground visibility
- d) Speed not above 115 kt IAS

## 02. $V_x$ is the speed...

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- a) For the best rate of climb
- b) For the best angle of climb
- c) To rotate
- d) Never to be exceeded

## 03. Two aircraft of the same type, same grossweight and same configuration fly at different airspeeds. Which aircraft will cause more severe wake turbulence?

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- a) The aircraft flying at lower altitude.
- b) The aircraft flying at slower speed.
- c) The aircraft flying at higher altitude.
- d) The aircraft flying at higher speed.

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**04. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PFP-024)**

A4604/11 NOTAMN

Q)

EDWW/QROLP/IV/NBO/W/000/095/5155N01037E004

A) EDWW

B) 1111180800 C) 1111181200

E) OVERFLYING PROHIBITED FOR ALL TRAFFIC RADIUS  
3.35NM CENTERED AROUND 515436N 0103725E DUE  
TO DEMOLITION OF EXPLOSIVES AT ECKERTHAL,  
(25NM S BRAUNSCHWEIG NDB BRU) .

F) GND

G) 9500 FT AMSL

- a) Height 9500 ft
- b) Flight Level 95
- c) Altitude 9500 ft MSL
- d) Altitude 9500 m MSL

**05. Which instantaneous information can be obtained from ground radar equipment?**

- a) Airspeed (TAS) and heading
- b) Direction and airspeed (TAS)
- c) Distance and direction
- d) Airspeed (TAS) and distance

**06. Which altitude is displayed on the altimeter when set to a specific QFE?**

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

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**07. Which of the stated wind phenomena will increase in speed since its path is narrowed by mountains?**

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- a) Scirocco
- b) Bora
- c) Mistral
- d) Passat

**08. The virtual rotation axis of a rotor is...**

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- a) Perpendicular to the hub plane
- b) Parallel with the main rotor shaft
- c) Perpendicular to the tip path plane
- d) Perpendicular to the plane which contains the swash plate

**09. What is the difference between primary and secondary radar?**

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- a) The pulses of a primary radar are reflected by the aircraft's surface, the pulses of a secondary radar system are answered by a transponder
- b) The pulses of a primary radar are variably pulse-modulated, the pulses of a secondary radar are statically amplitude-modulated
- c) The pulses of a primary radar are variably amplitude-modulated, the pulses of a secondary radar are statically pulse-modulated
- d) The primary radar is displayed on a computer screen, the secondary radar on a radar strip

**10. Which pressure is sensed by the Pitot tube?**

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- a) Dynamic air pressure
- b) Cabin air pressure
- c) Static air pressure
- d) Total air pressure



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**13. 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...**

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- a) 375 NM.
- b) 202 NM.
- c) 435 NM.
- d) 693 NM.

**14. The shown NOTAM is valid until... A) 1024/25 B) LOWW C) 2505211200 D) 2505211400 E) STOCKERAU VOR STO 113.00 UNSERVICEABLE.**

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- a) 21/05/2026 13:00 UTC.
- b) 21/05/2025 14:00 UTC.
- c) 13/05/2025 12:00 UTC.
- d) 13/10/2025 00:00 UTC.

**15. 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

**16. 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.

**17. The term "flight time" is defined as...**

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- 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.

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## 18. Which hazard arises during a helicopter night flight in blowing snow?

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- a) Engine monitoring displays are scanned with increased attention
- b) Anti-collision light and rotors can cause the "flicker vertigo"
- c) High partial pressures in the human body can cause hyperventilation or autokinesis
- d) High air pressure and low temperatures can clog the "eustachian tube"

## 19. What can be expected for the prevailing wind with isobars on a surface weather chart showing large distances?

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- a) Strong pressure gradients resulting in strong prevailing wind
- b) Strong pressure gradients resulting in low prevailing wind
- c) Low pressure gradients resulting in strong prevailing wind
- d) Low pressure gradients resulting in low prevailing wind

## 20. Which is the colour of runway end lights?

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

## 21. What does a cloud coverage of "SCT" mean in a METAR weather report?

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

## 22. Which components do rotor blades made of metal contain?

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

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## 23. What needs to be observed regarding ice formation during the flight?

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- a) An increase in mass and drag and a significant lift reduction
- b) An increase in both drag and lift coefficient due to a mass increase
- c) An increase in mass and a decrease in drag
- d) An increase in mass and a reduced rate of descent

## 24. In what different ways can a risk be handled appropriately?

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- a) Ignore, accept, transfer, extrude
- b) Avoid, reduce, transfer, accept
- c) Extrude, avoid, palliate, transfer
- d) Avoid, ignore, palliate, reduce

## 25. During a flight with a flight plan submitted, landing is conducted at an airfield other than the destination stated in the filed flight plan. Who has to be contacted by the pilot immediately?

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- a) The police department
- b) Aeronautical Information Service (AIS).
- c) The flight manager on duty.
- d) Local office for aerial supervision.

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26. The position of the center of gravity equals... See figure (PFP-052e)

ITEM	MASS	ARM
Basic Empty Mass	3.156 lb	135,33 in
Front Seats	320 lb	135,50 in
Rear Seats	340 lb	177,00 in
Baggage	80 lb	248,23 in
Fuel	321,5 lb	150,31 in

- a) 142 in.
- b) 137.5 in.
- c) 147.5 in.
- d) 145.7 in.

27. Two aeroplanes are flying on crossing tracks. Which one has to divert?

- a) The aircraft which flies from left to right has the right of priority
- b) The aircraft which flies from right to left has the right of priority
- c) Both have to divert to the left
- d) Both have to divert to the right

28. A spider control...

- 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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**29. Two engine-driven aircraft are flying on crossing courses at the same altitude. Which one has to divert?**

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- a) Both have to divert to the right
- b) The lighter one has to climb
- c) Both have to divert to the left
- d) The heavier one has to climb

**30. An autorotation in a mountainous area is performed:**

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- a) Downwind under obstacles observance.
- b) Upslope without any yawing.
- c) Downslope with inclined rotor.
- d) Upwind and across the slope.

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

---

- 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.

**32. An aircraft is flying with a true airspeed (TAS) of 120 kt and experiences 35 kt tailwind. How much time is needed for a distance of 185 NM?**

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- a) 1 h 12 min
- b) 2 h 11 min
- c) 0 h 50 min
- d) 1 h 32 min

**33. The term "FATO" is defined as...**

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- a) A treaty between federal organizations.
- b) An area for final approach and take-off for helicopters.
- c) A noise abatement procedure for VFR traffic.
- d) A missed approach procedure for essential traffic.

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## 34. What danger arises for a helicopter during flight through a ground inversion in winter?

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- a) Cloud formation above the inversion
- b) Baffling wind conditions
- c) Electrostatic charges
- d) Ice formation below the inversion

## 35. Which answer states a risk factor for diabetes?

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- a) Alcohol consumption
- b) Sleep deficiency
- c) Smoking
- d) Overweight

## 36. How can a wind shear encounter in flight be avoided?

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- a) Avoid take-off and landing during the passage of heavy showers or thunderstorms
- b) Avoid take-offs and landings in mountainous terrain and stay in flat country whenever possible
- c) Avoid thermally active areas, particularly during summer, or stay below these areas
- d) Avoid areas of precipitation, particularly during winter, and choose low flight altitudes

## 37. The VDF range depends on...

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- a) The condition of the ionosphere.
- b) The aircraft's speed.
- c) The range of the ground / surface wave.
- d) The aircraft's altitude.

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

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

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

---

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

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

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- 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

**41. After lift-off, a much stronger than expected airspeed rise is experienced during the initial climb phase. What may be expected if the aeroplane entered a microburst?**

---

- a) A decreased climb rate and airspeed
- b) An increased climb rate and decreased airspeed
- c) A decreased climb rate and increased airspeed
- d) An increased climb rate and airspeed

**42. What is an indication for a macho attitude?**

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- a) Risky flight maneuvers to impress spectators on ground
- b) Comprehensive risk assessment when faced with unfamiliar situations
- c) Quick resignation in complex and critical situations
- d) Careful walkaround procedure

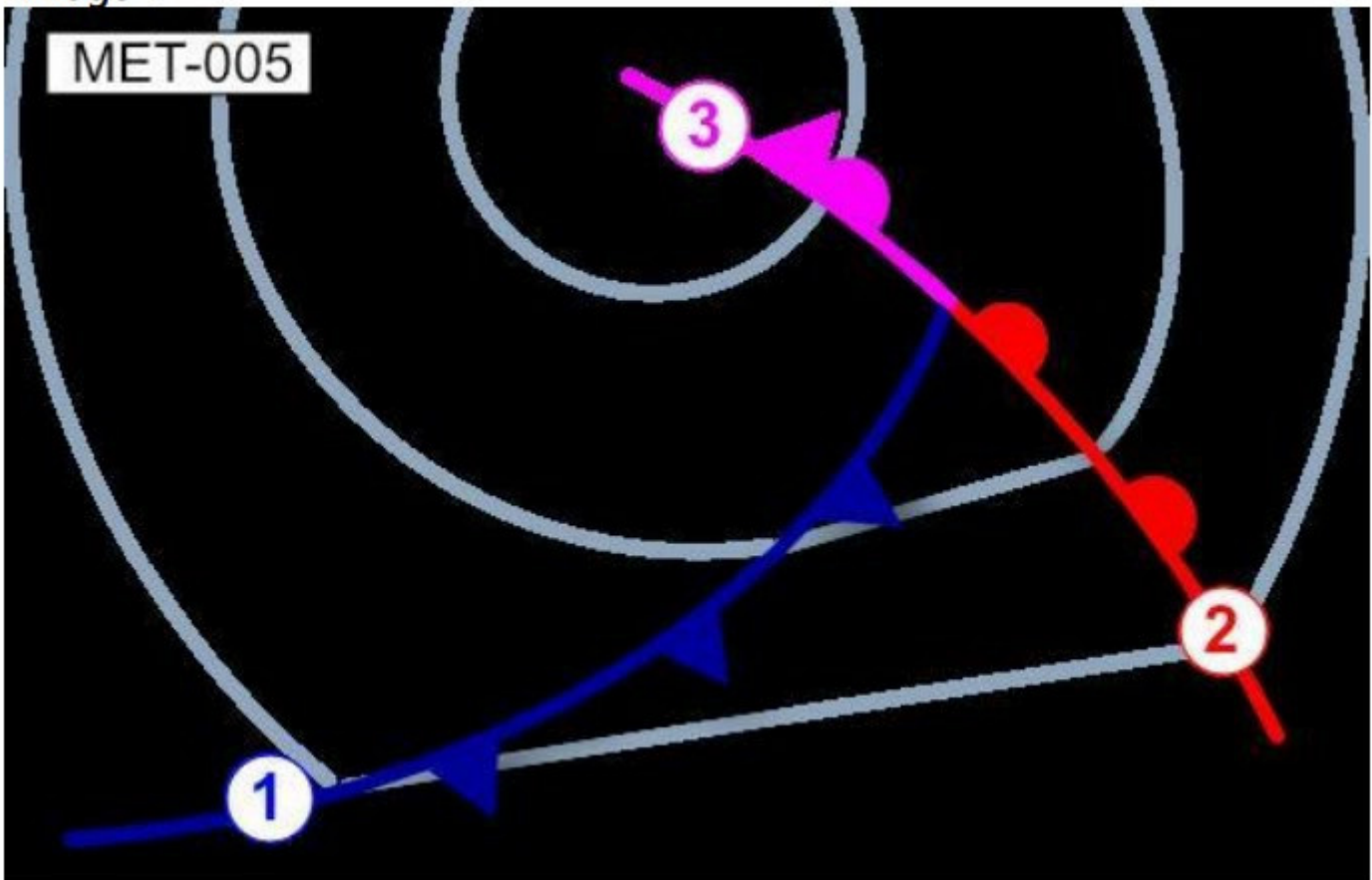
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43. The symbol labeled (3) as shown in the picture is a / an... See figure (MET-005)



- a) Cold front.
- b) Occlusion.
- c) Front aloft.
- d) Warm front.

44. What is the difference in time when the sun moves 10° of longitude?

- a) 0:40 h
- b) 0:04 h
- c) 1:00 h
- d) 0:30 h

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**45. Wings level after a longer period of turning can lead to the impression of...**

---

- a) Starting a climb.
- b) Steady turning in the same direction as before.
- c) Starting a descent.
- d) Turning into the opposite direction.

**46. Which are the official basic units for horizontal distances used in aeronautical navigation and their abbreviations?**

---

- a) Feet (ft), inches (in)
- b) Yards (yd), meters (m)
- c) Nautical miles (NM), kilometers (km)
- d) Land miles (SM), sea miles (NM)

**47. With only a slight crosswind, what is the danger at take-off after the departure of a heavy aeroplane?**

---

- 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.

**48. The correct transponder code for emergencies is...**

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

**49. Why do helicopters with a semi-rigid rotor system react slower than others?**

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- a) The central flapping hinge does not transmit any moments
- b) The missing lag hinges cause a rotor imbalance
- c) The lowered attachment of the rotor blades allows a transmission of forces
- d) The angled lag hinges prevent the transmission of aerodynamic forces on the helicopter frame

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**50. 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

**51. The center of gravity has to be located...**

---

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

**52. During an approach the aeroplane experiences a windshear with a decreasing headwind. If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change?**

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

**53. What has to be considered during refueling?**

---

- a) Apply ground wires, turn on the main switch and magneto ignition
- b) No open fires, obey smoking ban and apply ground cables
- c) Check the fuel content of the tank with a torch and remove fire protection
- d) Refuel through a soaked rag and keep a fire extinguisher available

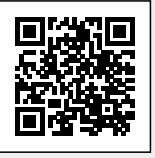
**54. The validity period of a helicopter type rating is...**

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- a) 10 years.
- b) 1 year.
- c) 2 years.
- d) 5 years.

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**55. The induced airflow on the rotor of a helicopter in level flight has the greatest value at the...**

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- a) Rear rotor area
- b) Advancing rotor blade
- c) Retreating rotor blade
- d) Front rotor area

**56. The Caution Area is marked on an airspeed indicator by what color?**

---

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

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

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

**58. An aircraft travels 100 km in 56 minutes. The ground speed (GS) equals...**

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- a) 93 kt
- b) 198 kt
- c) 58 km/h
- d) 107 km/h

**59. Which altitude is displayed on the altimeter when set to a specific QNH?**

---

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

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## 60. 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.

## 61. What is shown on the printed sign? See 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

## 62. What action has no effect on the rotor RPM in an autorotation?

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- a) Utilisation of friction brake
- b) Centre of gravity displacement
- c) Pitch angle change
- d) Transition into a turning flight

## 63. Which dangerous situation could arise when the helicopter engine is started in strong tailwind conditions?

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- a) Decompression sickness
- b) Carbon monoxide poisoning
- c) Binocular vision
- d) Rotary vertigo

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**64. The pilot receives a QDR of 225° from the VDF ground station. Where is the aircraft located in relation to the ground station?**

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- a) Northwest
- b) Southeast
- c) Northeast
- d) Southwest

**65. Which energies serve to maintain the rotor rpm in an autorotation?**

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- a) Potential or kinetic energy
- b) Mechanical or chemical energy
- c) Rotational and linear energy
- d) Frictional and flow energy

**66. What is the meaning of the 1:60 rule?**

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- a) 60 NM lateral offset at 1° drift after 1 NM
- b) 10 NM lateral offset at 1° drift after 60 NM
- c) 6 NM lateral offset at 1° drift after 10 NM
- d) 1 NM lateral offset at 1° drift after 60 NM

**67. 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?**

---

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

**68. The control mixing assembly...**

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- a) Releases the sprag freewheel and prevents rotor blockage by the engine.
- b) Overlays periodic and collective control inputs for main rotor pitch angle change.
- c) Ensures a constant pressure distribution in a hydraulic control system of a helicopter.
- d) Opens the throttle and increases engine performance if the collective is reduced.

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**69. What does the reported runway condition "DAMP" mean?**

---

- a) A large part of the surface is flooded
- b) The runway is clear of water, ice, and snow
- c) Change of colour on the surface due to moisture
- d) Wet surface, but no significant puddles are visible

**70. Which stage of a thunderstorm is dominated by updrafts?**

---

- a) Cumulus stage
- b) Mature stage
- c) Upwind stage
- d) Dissipating stage

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## Response Scheme

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

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