

# Exam simulation

PPL(H) - Private Pilot License - Meteorology



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STUDENT NAME:

DATE AND TIME:

## 01. The VFR semicircular rules are based on the...

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- a) Magnetic course (MC).
- b) True heading (TH).
- c) True course (TC).
- d) Magnetic heading (MH).

## 02. Distance to the next waypoint is 45 NM and groundspeed is 75 kt. What is the estimated time en route?

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- a) 36 minutes
- b) 30 minutes
- c) 44 minutes
- d) 100 minutes

## 03. In METAR/TAF coding, what does OVC mean?

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- a) Freezing rain.
- b) Clear sky below 5,000 ft.
- c) Variable wind direction.
- d) Overcast.

## 04. Which statement about workload management is correct?

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- a) It means completing paperwork before controlling the aircraft.
- b) It is irrelevant during emergencies.
- c) It includes prioritising aircraft control, navigation and communication.
- d) It replaces situational awareness.

## 05. Which statement about a cold front is correct?

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- a) It is often associated with showers, cumuliform cloud and improved visibility after passage.
- b) It always produces calm clear weather before passage.
- c) It eliminates turbulence.
- d) It can never produce thunderstorms.

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## 06. Why is low cloud important for a PPL(H) flight?

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- a) It can reduce terrain and obstacle clearance options.
- 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.

## 07. Which statement about the electrical alternator or generator is correct?

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- a) It creates hydraulic pressure for the rotor brake only.
- b) It measures outside air temperature.
- c) It supplies electrical power and charges the battery during normal operation.
- d) It replaces all fuses and circuit breakers.

## 08. Which statement about flare in autorotation is correct?

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- a) It is used to stop the rotor immediately.
- b) It increases sink rate in all cases.
- c) It replaces rotor RPM control.
- d) It can reduce rate of descent and forward speed before touchdown.

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**09. What is the distance from Neustadt (EDAN) (53°22'N, 011°37'E) to Uelzen (EDVU) (52°59'N, 10°28'E)? Use figure (NAV-031)**



- a) 78 NM
- b) 46 NM
- c) 46 km
- d) 78 km

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**10. What is the meaning of a flashing green light signal at a controlled aerodrome directed to an aircraft in flight?**

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- a) Airport unsafe, do not land
- b) Return for landing, followed by steady green at the appropriate time
- c) Cleared to land
- d) Give way to other aircraft and continue circling

**11. 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?**

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- a) 270°
- b) 180°
- c) 90°
- d) 0°

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

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

**13. 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.

**14. QNH is 1009 hPa and QFE is 992 hPa. What is the approximate aerodrome elevation using 27 ft per hPa?**

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- a) About 260 ft
- b) About 710 ft
- c) About 17 ft
- d) About 460 ft

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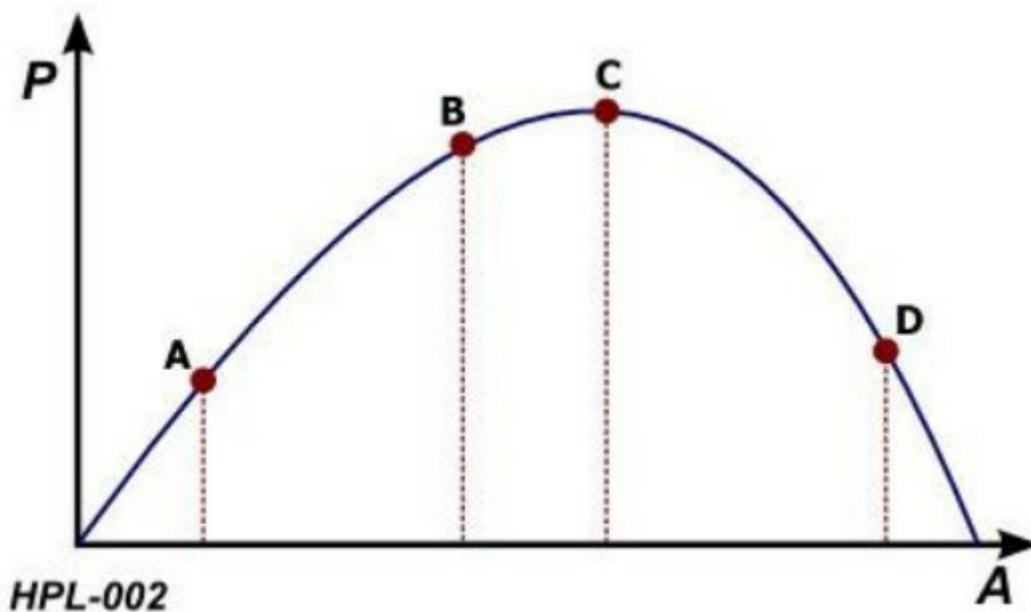


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**15. Two aircraft of the same type, same gross weight and same flap configuration fly with different speeds and altitude. Which aircraft will cause more wake turbulence?**

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

**16. The ideal level of arousal is at which point in the diagram? Use figure (HPL- 002) P = Performance A = Arousal / Stress**



- a) Point D
- b) Point C
- c) Point B
- d) Point A

**17. What is the safest operational response? The pilot is unsure whether a defect affects airworthiness.**

- a) Continue as planned because helicopters can land anywhere.
- b) Delay all action until reaching destination.
- c) Ask passengers to decide the next action.
- d) Do not depart until the defect is assessed and released as required.

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**18. Without corrective moves, a helicopter hovering in ground effect in no-wind conditions, will execute...**

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- a) Pitching motion about the centre
- b) Fast yaw motions
- c) Rolling movements to about 60°
- d) Slight upward and downward movements

**19. Which action best supports safe management of engine cooling airflow?**

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- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Monitor temperatures and avoid prolonged operation outside limits.
- d) Ignore it when the helicopter has sufficient fuel.

**20. What should a PPL(H) pilot do when operating close to 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.

**21. 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.

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

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

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## 23. 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

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

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- 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.

## 25. What chart shows areas of precipitation?

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- a) Radar picture
- b) Satellite picture
- c) GAFOR
- d) Wind chart

## 26. An aircraft is following a true course (TC) of 220° at a constant TAS of 220 kt. The wind vector is 270°/50 kt. The ground speed (GS) equals...

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- a) 135 kt
- b) 255 kt
- c) 170 kt
- d) 185 kt

## 27. Which statement about Special VFR is correct?

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- a) It is a replacement for IFR outside controlled airspace.
- b) It is always available on pilot request.
- c) It removes the requirement to remain clear of cloud where applicable.
- d) It is a controlled-airspace procedure subject to ATC clearance and prescribed conditions.



## 28. What document contains information about the fuel consumption?

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- a) Mass and balance report
- b) Log book
- c) Flight manual (POH)
- d) Airworthiness certificate

## 29. Which statement about cyclic pitch is correct?

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- a) It changes all blade pitch equally.
- b) It controls fuel flow only.
- c) It tilts the rotor disc to control movement around pitch and roll axes.
- d) It is used only after shutdown.

## 30. A helicopter approach is conducted into the wind because...

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- 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.

## 31. Which action best supports safe management of task saturation?

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- a) Reduce workload and prioritise aircraft control.
- 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.

## 32. Information about pressure patterns and frontal situation can be found in which chart?

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



### 33. What is the result of the vortex ring state?

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- a) The helicopter is more stable
- b) The helicopter loses power
- c) The sink rate increases uncontrollably
- d) The rotor RPM increases

### 34. Which statement about a clutch is correct?

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- a) It measures manifold pressure.
- b) It stores hydraulic pressure.
- c) It replaces the tail rotor.
- d) It allows engine power to be engaged progressively to the rotor system.

### 35. What pressure pattern can be observed when a cold front is passing?

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- a) Continually increasing pressure
- b) Continually decreasing pressure
- c) Constant pressure pattern
- d) Shortly decreasing, thereafter increasing pressure

### 36. What distance corresponds to one degree difference in latitude along any degree of longitude?

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- a) 30 NM
- b) 60 km
- c) 60 NM
- d) 1 NM

### 37. 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"

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## 38. What is the unit for voltage?

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- a) Ohm
- b) Watt
- c) Volt
- d) Ampere

## 39. May an engine, which previously was on fire, be restarted?

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- a) Yes, but only if the cause of the fire was a carburettor fire during engine start
- b) Yes, but only on the ground for the purpose of taxiing
- c) No, the risk of a reignition of the fire would be too high
- d) Yes, if the aircraft is flying at a safe altitude

## 40. Which statement about CAVOK is correct?

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- a) It means the runway is closed.
- b) It is a turbulence forecast.
- c) It means QNH is standard.
- d) It indicates visibility, cloud and weather conditions meeting defined criteria.

## 41. 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.

## 42. What has to be considered during refueling?

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- 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

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**43. Which type of ice forms by large, supercooled droplets hitting the front surfaces of an aircraft?**

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- a) Rime ice
- b) Hoar frost
- c) Mixed ice
- d) Clear ice

**44. Why is hydration 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 supports concentration and reduces fatigue risk.
- d) It is replaced by passenger preference.

**45. A pilot licence issued in accordance with ICAO Annex 1 is valid in...**

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- a) All ICAO contracting states.
- b) The country where the licence was obtained.
- c) Those countries that have accepted this licence on application only.
- d) The country where the licence was issued only.

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

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

**47. What is the risk arising in a vertical autorotation with a subsequent increase in airspeed prior to the landing?**

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- a) High rotor RPM
- b) Vortex ring state
- c) Loss of the tail rotor efficiency
- d) Misjudgement when increasing the airspeed

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**48. A single-engine piston and a turboprop aircraft are approaching each other opposite at the same altitude. Which aircraft has to change its track to avoid a collision?**

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- a) Both aircraft have to alter their tracks to the left
- b) The turboprop aircraft has to give way to the single-engine piston aircraft
- c) The single-engine piston aircraft has to give way to the turboprop aircraft
- d) Both aircraft have to alter their tracks to the right

**49. Which action best supports safe management of hover ceiling?**

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- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Ignore it when the helicopter has sufficient fuel.
- d) Check performance data before operating near limits.

**50. Which statement about GNSS navigation is correct?**

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- a) It removes the need for pre-flight planning.
- b) It is immune to all errors and outages.
- c) It requires appropriate database, signal integrity and pilot monitoring.
- d) It replaces visual lookout.

**51. What is the best planning conclusion for rapidly building towering cumulus near the route?**

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- a) Continue without checking updated weather.
- b) Assume VMC is guaranteed.
- c) consider thunderstorm development and avoid the area.
- d) Use QFE instead of weather information.

**52. During an autorotation a helicopter accelerates from 60 to 90 knots without further corrections. The rotor RPM will...**

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- a) Remain constant.
- b) Decrease.
- c) Vary.
- d) Increase.



**53. The reason for a stall at a given pitch angle can be...**

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- a) Constant peripheral speed and great vertical airflow through the rotor
- b) Smaller vertical airflow through the rotor and constant peripheral speed
- c) Smaller effective angle of attack and small peripheral speed
- d) Smaller frontal resistance and turbulent airflow

**54. 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?**

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

**55. 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

**56. From which altitude on does the body usually react to the decreasing atmospheric pressure?**

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- a) 7000 feet
- b) 12000 feet
- c) 2000 feet
- d) 10000 feet

**57. What is the meaning of the radiotelephony phrase "Unable"?**

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- a) No.
- b) Disregard my last transmission.
- c) Emergency traffic only.
- d) I cannot comply with your instruction or request.



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

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

**59. What needs to be considered if permissible limitations were exceeded?**

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- a) The helicopter must be inspected by a qualified engineer before the next flight
- b) The helicopter must be subjected to a duplicate inspection by two engineers
- c) The helicopter must be inspected by the pilot in command and if no defect is found, no appropriate entry in the aircraft technical log is necessary
- d) The helicopter must be inspected by at least two pilots licensed on the type, one of whom must be the pilot in command

**60. Which statement about the swashplate is correct?**

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- a) It stores hydraulic fluid.
- b) It measures exhaust gas temperature.
- c) It transmits cyclic and collective pitch inputs to the rotating rotor system.
- d) It locks the rotor blades during start.

**61. Which action best supports safe management of unusual vibration?**

---

- a) Delay the decision until after take-off.
- b) Land as soon as appropriate and have the aircraft inspected.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

**62. Which action best supports safe management of updated METAR and TAF review?**

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- a) Check the latest reports and forecasts before departure.
- b) Delay the decision until after take-off.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.



**63. Which statement about bird strike risk is correct?**

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- a) It exists only above FL 100.
- b) It is eliminated by landing lights.
- c) It affects only turbine aircraft.
- d) It is increased near wetlands, coastlines, landfill sites and during migration periods.

**64. What should a PPL(H) pilot do when operating close to a restricted area?**

---

- a) Assume it is inactive unless ATC calls first.
- b) Switch off the transponder to reduce workload.
- c) Ignore it when flying VFR below 1,000 ft AGL.
- d) comply with the published restrictions before entry.

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

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

**66. What kind of helicopter needs a tail rotor?**

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- a) Single-rotor helicopter with shaft drive
- b) Twin-rotor helicopter with counter-rotating main rotors
- c) Single-rotor helicopter with blade drive
- d) Twin-rotor autogyro with counter-rotating main rotors

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

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

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**68. 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.

**69. What is the period of validity of a private pilot licence (PPL)?**

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- a) Unlimited
- b) 48 months
- c) 24 months
- d) 60 months

**70. Which statement about coning is correct?**

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- a) It is a radio navigation procedure.
- b) It is the upward bending of rotor blades due to lift and centrifugal force balance.
- c) It is caused by altimeter error.
- d) It is the same as tail rotor drift.

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## Response Scheme

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

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