

# Exam simulation

PPL(H) - Private Pilot License - Principles of Flight (Helicopter)



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STUDENT NAME:

DATE AND TIME:

## 01. What does the abbreviation "FIS" stand for?

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- a) Flight information service
- b) Flashing information service
- c) Flight information system
- d) Flashing information system

## 02. Carbon monoxide poisoning can be caused by...

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- a) Alcohol.
- b) Unhealthy food.
- c) Smoking.
- d) Little sleep.

## 03. An aerodrome beacon (ABN) is a...

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- a) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.
- b) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground.
- c) Rotating beacon installed at the beginning of the final approach to indicate its location to aircraft pilots from the air.
- d) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.

## 04. Extensive high pressure areas can be found throughout the year ...

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- a) Over oceanic areas at latitudes around 30°N/S.
- b) In areas showing extensive lifting processes.
- c) In tropical areas, close to the equator.
- d) In mid latitudes along the polar front

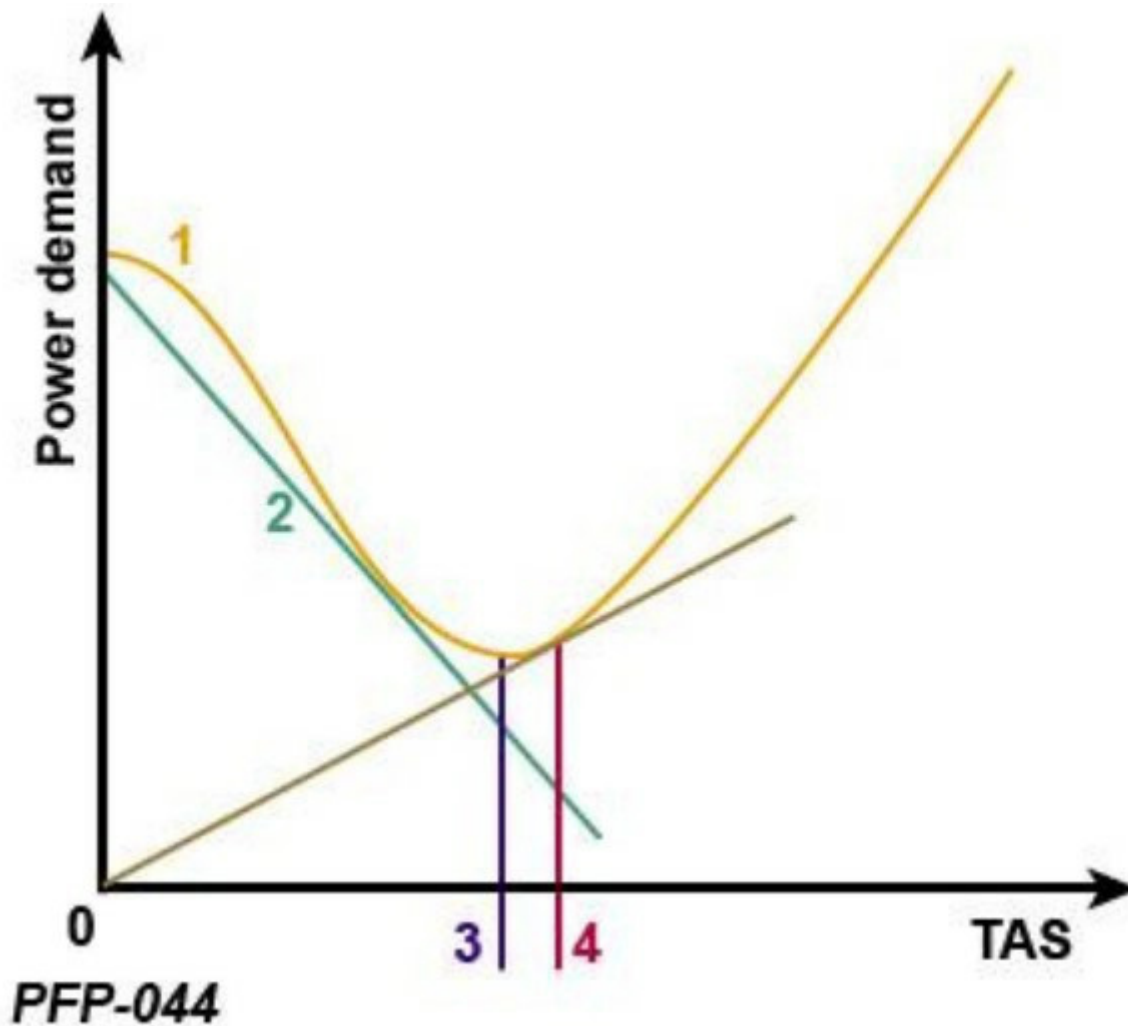
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05. Which point indicates the speed for maximum endurance? See figure (PFP-044)



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

06. The result of a front C.G. position is: 1. Increase in stability. 2. Increase in fuel consumption. 3. Increase in stall speed. 4. Increase in range.

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

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**07. What cloud type can typically be observed across widespread high pressure areas during summer?**

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- a) Overcast low stratus
- b) Squall lines and thunderstorms
- c) Scattered Cu clouds
- d) Overcast Ns clouds

**08. What is the message of the NOTAM shown below? B7938/25 NOTAMN Q) LECB/QMRLC/IV/NBO/A /000/999/3933N00244E005 A) LEPA B) 2511212200 C) 2511220500 E) RWY 24L/06R CLOSED**

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- a) Runway 24L/06R at Palma de Mallorca (LEPA) airport will be closed from November 21st 2025 2200 local time until November 22nd 2025 0500 local time
- b) Runway 24L/06R at Palma de Mallorca (LEPA) airport will be closed from November 21st 2025 2200 UTC until November 22nd 2025 0500 UTC
- c) Runway 24L/06R at Palma de Mallorca (LEPA) airport will be closed from present time (000) indefinitely (999)
- d) Runway 24L/06R at Cataluña/Barcelona (LECB) airport will be closed from November 21st 2025 2200 UTC until November 22nd 2025 0500 UTC

**09. Given: True course: 255°. TAS: 100 kt. Wind: 200°/10 kt. The true heading equals...**

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- a) 250°
- b) 265°
- c) 275°.
- d) 245°.

**10. The validity of a medical examination certificate class 2 for a 62 years old pilot is...**

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- a) 12 Months.
- b) 48 Months.
- c) 24 Months.
- d) 60 Months.

**11. Which movement is caused by the Coriolis effect on the advancing rotor blade?**

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- a) Mass movement outwards
- b) Drag movement forwards
- c) Tilt movement backwards
- d) Flapping downwards

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## 12. What kind of information should be included in an urgency message?

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- a) Intended routing, important information for support, intentions of the pilot, departure aerodrome, destination aerodrome, heading and altitude
- b) Nature of problem or observation, important information for support, intentions of the pilot, information about position, heading and altitude
- c) Nature of problem or observation, important information for support, departure aerodrome, information about position, heading and altitude
- d) Intended routing, important information for support, intentions of the pilot, information about position, departure aerodrome, heading and altitude

## 13. What phrase is used by a pilot to inform the tower about a go-around?

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- a) Pulling up
- b) Going around
- c) Approach canceled
- d) No landing

## 14. Which are the advantages of sandwich structures?

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- a) Low weight, high stiffness, high stability, and high strength
- b) Good formability and high temperature durability
- c) High temperature durability and low weight
- d) High strength and good formability

## 15. In case of an emergency ditching, the life vests have to be inflated...

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- a) Before disembarking the aircraft.
- b) After disembarking the aircraft at a safe distance of about 10 m.
- c) During disembarking the aircraft.
- d) After disembarking the aircraft.

## 16. The density of AVGAS 100LL at 15° C is...

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- a) 1.0 kg/l
- b) 0.72 kg/l
- c) 0.82 kg/l
- d) 0.68 kg/l

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**17. 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

**18. 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.

**19. A delta-three hinge is used to allow...**

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

**20. The rotor blade shape takes effect on the...**

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- a) Lift distribution
- b) Rotor head used
- c) Notch sensitivity
- d) Structural take-off mass

**21. Leaving a control frequency (except when reaching the final parking position)...**

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- a) Must be approved
- b) Is not mandatory to be reported
- c) Must be reported
- d) Must be approved twice

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## 22. What is caused by an increase of stability in a helicopter?

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- a) An optimization of the maximum helicopter mass
- b) An enhance of control under negative load factors
- c) A decrease of the required control forces
- d) An increase of general flight safety

## 23. 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).

## 24. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are the VAR and the DEV?

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- a) VAR: 004° E. DEV: -002°
- b) VAR: 004° W. DEV: -002°.
- c) VAR: 004° E. DEV: +002°
- d) VAR: 004° W. DEV: +002°.

## 25. 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

## 26. The barometric altimeter with QNH setting indicates...

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

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**27. Which of the following options is NOT a sufficient reason to fly below the required minimum height?**

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- a) The drop of towed objects at an aerodrome
- b) Bad weather conditions in the vicinity of an aerodrome
- c) Take-off or landing at an aerodrome
- d) An approach without landing at an aerodrome

**28. What is the advantage of a gyrodyne compared to a helicopter?**

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- a) Large centre of gravity limits
- b) High airspeed in cruise
- c) No gearbox is necessary
- d) Low fuel consumption

**29. Which factor has a positive effect on the power required?**

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- a) Unleaded fuel
- b) Clean blades
- c) Icy helicopter airframe
- d) High density altitude

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30. Where is the aircraft located in relation to the VOR? See annex (NAV-022)



**NAV-022**

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

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**31. Given: Ground speed (GS): 160 kt. True course (TC): 177°. Wind vector (W/WS): 140°/20 kt. The true heading (TH) equals...**

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- a) 173°.
- b) 169°
- c) 180°.
- d) 184°.

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

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- 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

**33. A deceleration during a straight horizontal flight can lead to the illusion of...**

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

**34. 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

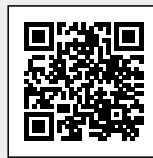
**35. The effective angle of attack is the angle between...**

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- a) Chord line and tip path plane
- b) Effective airflow and chord line
- c) Tip path plane and rotor blade
- d) Effective airflow and tip path plane

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## 36. Which kind of engine is susceptible to carburettor fire?

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- a) Turboprop engines
- b) Turbine engines
- c) Piston engines
- d) Electric motors

## 37. During an autorotation the airspeed is limited by...

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- a) The displacement of the stall regions in the inner area of the rotor blade
- b) The interference drag during low rates of descent
- c) The landing gear during the touchdown
- d) The drift of the driving forces on the returning blade

## 38. 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

## 39. What information is provided in the part "AD" of the AIP?

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- a) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces
- b) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods
- c) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees
- d) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts

## 40. What should be the first action in case of a cable fire during a flight?

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- a) Open the windows
- b) Turn off the master switch
- c) Close the fuel valve
- d) Open cabin ventilation

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**41. 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

**42. Which actions should be taken if the orientation is lost during helicopter flight operations?**

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- a) Return to the departure aerodrome and reorientate from there
- b) Continue the flight in any direction until the navigation can be resumed
- c) Continue with planned heading to the next interception line and reorientate from there
- d) According the Warsaw convention orientation triangles must be flown

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

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

**44. What is the correct phrase to begin a blind transmission?**

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- a) Blind
- b) Transmitting blind
- c) No reception
- d) Listen

**45. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 360° to a heading of 270°. At approximately which indication of the magnetic compass should the turn be terminated?**

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- a) 270°
- b) 360°
- c) 300°
- d) 240°

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**46. An aeroplane has a heading of 090°. The distance which has to be flown is 90 NM. After 45 NM the aeroplane is 4.5 NM north of the planned flight path. What is the corrected heading to reach the arrival aerodrome directly?**

---

- a) 6° to the right
- b) 9° to the right
- c) 12° to the right
- d) 18° to the right

**47. What cloud type does the picture show? See figure (MET-002).**

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- a) Altus
- b) Stratus
- c) Cirrus
- d) Cumulus

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**48. Which altitude marks the lower limit where the body is unable to completely compensate the effects of the low atmospheric pressure?**

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- a) 12000 feet
- b) 7000 feet
- c) 5000 feet
- d) 22000 feet

**49. What type of fog emerges if humid and almost saturated air, is forced to rise upslope of hills or shallow mountains by the prevailing wind?**

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- a) Steaming fog
- b) Orographic fog
- c) Radiation fog
- d) Advection fog

**50. 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 airfield
- d) Land immediately on suitable terrain and be prepared for an autorotation

**51. A helicopter approach is conducted into the wind because...**

---

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

**52. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +21°C. The QNH altitude is 6500 ft. The true altitude equals...**

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- a) 7000 ft.
- b) 6500 ft.
- c) 6250 ft.
- d) 6750 ft.

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## 53. What does the term "confirmation bias" mean?

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- a) The feedback loop in a closed communication
- b) The preference to find arguments to prove one's own mental model
- c) The bias to confirm each radio call
- d) The critical check of ambiguous situations in flight

## 54. The "Certificate of Airworthiness" is issued by the state...

---

- a) In which the airworthiness review is done.
- b) In which the aircraft is constructed.
- c) In which the aircraft is registered.
- d) Of the residence of the owner.

## 55. Where can the type of restriction for a restricted airspace be found?

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- a) NOTAM
- b) AIP
- c) AIC
- d) ICAO chart 1:500000

## 56. Given: QDM: 138° VAR: 10° E The QUJ equals...

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- a) 148°
- b) 328°
- c) 168°
- d) 318°

## 57. What is caused by an increase of stability in a helicopter?

---

- a) A decrease of the required control forces
- b) A relief of the pilot in command
- c) An enhancement of control under all load factors
- d) An optimization of the maximum helicopter mass

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## 58. How may windshear be recognised in flight?

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- a) Sudden and apparently baseless change of oilpressure, oil temperature, engine speed and altitude.
- b) Sudden and apparently baseless change in altitude, airspeed, rate of climb or descent.
- c) Sudden and apparently baseless change in heading, turning rate, engine speed or oil temperature.
- d) Rather unexpected onset of drizzle associated with high stratus clouds following previously clear skies and calm conditions.

## 59. What is a latent error?

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- a) An error which only has consequences after landing
- b) An error which has an immediate effect on the controls
- c) An error which is made by the pilot actively and consciously
- d) An error which remains undetected in the system for a long time

## 60. A pilot can contact FIS (flight information service)...

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- a) Via telephone.
- b) Via internet.
- c) Via radio communication.
- d) By a personal visit.

## 61. 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

## 62. What is the correct way to counteract the vortex ring state?

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- a) Raise collective and decrease rotor RPM
- b) Raise collective and pull back the stick
- c) Try to gain airspeed and enter autorotation
- d) Open throttle and pull back the stick

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## 63. How can you obtain meteorological information concerning airports during a crosscountry flight?

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- a) VOLMET
- b) METAR
- c) AIRMET
- d) GAMET

## 64. 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

## 65. In what cases is visibility transmitted in kilometers?

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- a) Up to 10 km
- b) Greater than 5 km
- c) Greater than 10 km
- d) Up to 5 km

## 66. In which situations should a pilot use blind transmissions?

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

## 67. Wake turbulence is particularly strong...

---

- a) When flying with high thrust.
- b) At a high aeroplane weight.
- c) At a low aeroplane weight.
- d) When flying with low thrust.

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## 68. The rotor thrust is...

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- a) Perpendicular to the tip path plane
- b) Opposite to the rotation of the rotor blade element
- c) Parallel with the main rotor shaft
- d) Perpendicular to the hub plane

## 69. Which phrase is to be used when a pilot wants the tower to know that he is ready for take-off?

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- a) Ready for departure
- b) Ready
- c) Ready for start-up
- d) Request take-off

## 70. The droop stop...

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- a) Limits blade flapping and prevents rotor blade stall.
- b) Reduces the risk of rotor blade contact with the tail boom at low rotor RPM.
- c) Decreases the bending and tensional loads on the rotor blades in all flight conditions.
- d) Allows the rotor blades to flap upwards without restrictions.

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## Response Scheme

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

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