

# Exam simulation

PPL(H) - Private Pilot License - Communication



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STUDENT NAME:

DATE AND TIME:

## 01. What needs to be observed if the carburettor heat is applied in a hover?

- a) Gain of power
- b) Loss of power
- c) Reduction of pre-ignition
- d) Increase of rotor rpm

## 02. Which Q-code is used for the true bearing from the station?

- a) QDR
- b) QDM
- c) QTE
- d) QUJ

## 03. The term "maximum elevation figure" (MEF) is defined as...

- a) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude.
- b) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude plus a safety margin, rounded to the next higher 100 ft.
- c) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude plus a safety margin of 1000 ft (305 m), rounded to the next higher 100 ft.
- d) The highest elevation within an area covering 1 degree of latitude and 1 degree of longitude plus a safety margin, rounded to the next lower 100 ft.

## 04. Winds blowing downhill are defined as...

- a) Subsident winds.
- b) Anabatic winds.
- c) Convergent winds.
- d) Katabatic winds.

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PPL(H) - Private Pilot License - Communication



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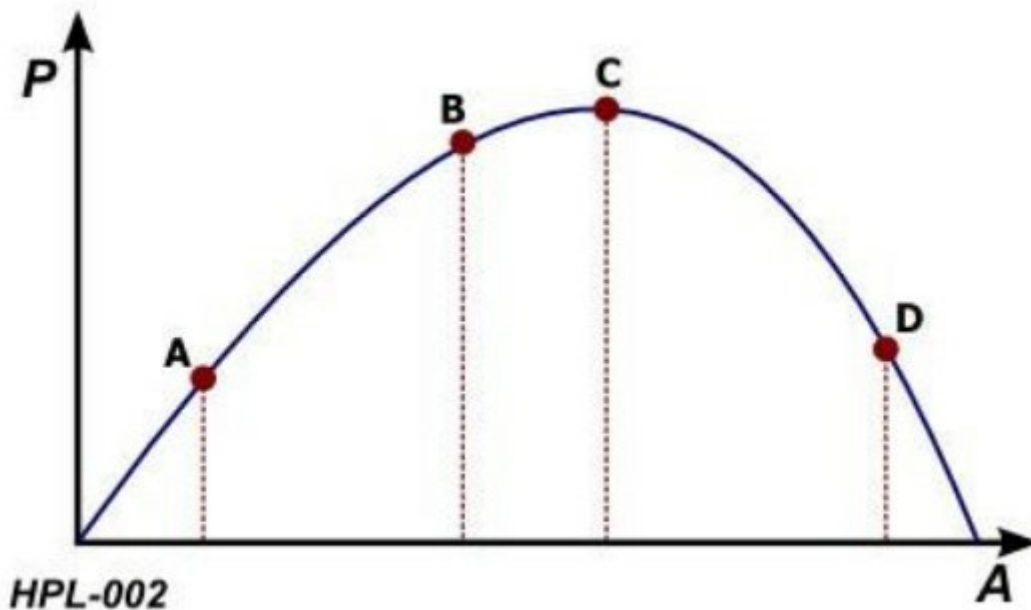
**05. An aircraft is following a true course (TC) of  $040^\circ$  at a constant true airspeed (TAS) of 180 kt. The wind vector is  $350^\circ/30$  kt. The groundspeed (GS) equals...**

- a) 172 kt.
- b) 155 kt.
- c) 168 kt.
- d) 159 kt

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

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

**07. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance  
A = Arousal / Stress Siehe Anlage 1**



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

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## 08. Wake turbulence is particularly strong...

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- a) When flying at low speeds.
- b) When flying at high altitudes.
- c) When flying at low altitudes.
- d) When flying at high speeds.

## 09. Which factor can lead to human error?

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- a) Double check of relevant actions
- b) Proper use of checklists
- c) The bias to see what we expect to see
- d) To be doubtful if something looks unclear or ambiguous

## 10. What is the reason for static dischargers on aircraft?

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- a) To improve the quality of radio transmission in high altitudes
- b) To discharge static charging during flight
- c) To ensure grounding during refueling
- d) To eliminate electrical interferences during intensive radio traffic

## 11. 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.

## 12. Which items should a passenger briefing in case of an imminent emergency landing include?

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- a) Blood type of the other aircraft occupants, location of the first-aid kit
- b) Nature of the emergency, intentions, safety position, evacuation routes, actions after landing
- c) How to work the aircraft radio, emergency transponder squawk, telephone number of the competent search and rescue (SAR) center
- d) How to read an emergency checklist, how to cut the engine, telephone number of the home airport

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**13. An aircraft must be loaded and operated in such a way that the center of gravity (CG) stays within the approved limits during all phases of flight. This is done to ensure...**

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- a) Both stability and controllability of the aircraft.
- b) That the aircraft does not exceed the maximum permissible airspeed during a descent.
- c) That the aircraft does not stall.
- d) That the aircraft does not tip over on its tail while it is being loaded.

**14. 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.

**15. Which section of the flight manual describes the centre of gravity limitations of a helicopter?**

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- a) Limitations
- b) Normal procedures
- c) Performance
- d) Supplements

**16. An aircraft is following a true course (TC) of 040° at a constant true airspeed (TAS) of 180 kt. The wind vector is 350°/30 kt. The wind correction angle (WCA) equals...**

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- a) 7° right.
- b) 3° left
- c) 3° right.
- d) 7° left.

**17. The occurrence of a vertigo is most likely when moving the head...**

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- a) During a descent.
- b) During a turn.
- c) During a climb.
- d) During a straight horizontal flight.

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## 18. 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.

## 19. The term "datum" with regard to a mass and balance calculation defines...

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- a) The distance from the reference plane to the center of gravity of an aircraft.
- b) The point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- c) The point on the vertical axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- d) The point on the lateral axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.

## 20. The altimeter can be checked on the ground by setting...

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- a) QNE and checking that the indication shows zero on the ground.
- b) QFF and comparing the indication with the airfield elevation.
- c) QNH and comparing the indication with the airfield elevation.
- d) QFE and comparing the indication with the airfield elevation.

## 21. What is the message of the NOTAM shown below? B7938/11 NOTAMN Q) LECB/QMRLC/IV/NBO/A /000/999/3933N00244E005 A) LEPA B) 1111212200 C) 1111220500 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 2011 2200 local time until November 22nd 2011 0500 local time
- b) Runway 24L/06R at Palma de Mallorca (LEPA) airport will be closed from November 21st 2011 2200 UTC until November 22nd 2011 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 Catalunya/Barcelona (LECB) airport will be closed from November 21st 2011 2200 UTC until November 22nd 2011 0500 UTC

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## 22. What does "WATER PATCHES" mean regarding the reported runway condition?

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- a) The runway is clear of water, ice, and snow
- b) Patches of standing water are visible
- c) A large part of the surface is flooded
- d) Wet surface, but no significant patches are visible

## 23. What weather phenomena have to be expected around an upper-level trough?

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- a) Calm wind, forming of shallow cumulus clouds
- b) Development of showers and thunderstorms (Cb)
- c) Formation of high stratus clouds, ground-covering cloud bases
- d) Calm weather, formation of lifted fog layers

## 24. 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.

## 25. What is the meaning of "risky shift"?

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- a) Seat adjustment in flight
- b) The tendency to accept higher risks in groups
- c) Crossing of rudder and ailerons on short final
- d) Spontaneous change of landing direction when the runway has an upslope

## 26. 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.

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## 27. 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

## 28. Given: True course: 120°. TAS: 120 kt. Wind: 150°/12 kt. The WCA equals...

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- a) 6° to the left.
- b) 3° to the right
- c) 6° to the right.
- d) 3° to the left.

## 29. The saturated adiabatic lapse rate is...

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- a) Proportional to the dry adiabatic lapse rate.
- b) Higher than the dry adiabatic lapse rate.
- c) Lower than the dry adiabatic lapse rate.
- d) Equal to the dry adiabatic lapse rate.

## 30. The ongoing process to monitor the current flight situation is called...

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- a) Situational thinking
- b) Situational awareness.
- c) Anticipatory check procedure.
- d) Constant flight check.

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**31. (For this question, please use annex PFP-063) According ICAO, what symbol indicates a general spot elevation? (2,00 P.) Siehe Anlage 18**

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- A 300
- B (300)
- C • 1737
- D • 1737

PFP-063

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

**32. What does a readability of 3 indicate?**

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- a) The transmission is readable but with difficulty
- b) The transmission is perfectly readable
- c) The transmission is unreadable
- d) The transmission is readable now and then

**33. What is the minimum age to obtain a private pilot license?**

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



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## 34. A VOR radial corresponds to the...

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- a) QDR.
- b) QDM.
- c) QUJ.
- d) QTE.

## 35. The term 'civil twilight' is defined as...

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- a) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the true horizon.
- b) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the apparent horizon.
- c) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the true horizon.
- d) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the apparent horizon.

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

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

## 37. 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.

## 38. The airframe of an accelerating helicopter continues to bend until the...

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- a) Horizontal thrust component equals the drag.
- b) Thrust passes in front of the centre of gravity.
- c) Vertical thrust component equals the drag.
- d) Thrust passes behind the centre of gravity.

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

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

## 40. What is the minimum flight visibility in airspace "C" at and above FL 100 for an aircraft operating under VFR?

- a) 1.5 km
- b) 10 km
- c) 8 km
- d) 5 km

## 41. What is shown on the printed sign? See figure (ALW-020) Siehe Anlage 2



- a) From this intersection the available runway length is 2500 m in the stated direction
- b) 2500 m in the stated direction till reaching the departure point of the runway
- c) 2500 m in the stated direction till reaching the parking area
- d) The complete length of the runway in the stated direction is 2500 m

## 42. What is the meaning of the 1:60 rule?

- 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

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## 43. The airspeed indicator is unservicable. The airplane may only be operated...

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- a) If no maintenance organisation is around.
- b) When the airspeed indicator is fully functional again.
- c) When a GPS with speed indication is used during flight.
- d) If only airfield patterns are flown.

## 44. 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

## 45. A flight level is a...

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

## 46. The rotor brake should be engaged (provided that no other procedure is described in the flight manual)...

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- a) During all prescribed pre-flight checks on the ground.
- b) For inside parking.
- c) For outside parking.
- d) During start-up until reaching the prescribed rotor rpm.

## 47. What is the advantage of a hingeless rotor?

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- a) Good autorotation characteristics
- b) Few components are necessary
- c) Excellent blade tracking
- d) Better lift distribution

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## 48. 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.

## 49. What can be expected during a hover flight in ground effect within a forest glade?

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- a) Useful ground effect caused by a smaller induced airflow
- b) No air turbulence through the slipstream and stable attitude
- c) Aspiration of the tail rotor in the direction of the forest and a performance gain
- d) Recirculation of air masses and an impairment of the ground effect

## 50. The indication of a magnetic compass deviates from magnetic north direction due to what errors?

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- a) Gravity and magnetism
- b) Deviation, turning and acceleration errors
- c) Inclination and declination of the earth's magnetic field
- d) Variation, turning and acceleration errors

## 51. Which of the following is NOT a symptom of hyperventilation?

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- a) Tingling
- b) Spasm
- c) Disturbance of consciousness
- d) Cyanose

## 52. Which of the following messages has the highest priority?

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- a) Turn left
- b) Wind 300 degrees, 5 knots
- c) Request QDM
- d) QNH 1013

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**53. 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.

**54. Given: Calibrated airspeed (CAS): 155 kt. Flight level (FL) 80. Outside air temperature (OAT): +15° C. The true airspeed (TAS) equals...**

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- a) 180 kts.
- b) 170 kts.
- c) 155 kts.
- d) 134 kts.

**55. 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

**56. The on-board equipment of the secondary surveillance radar (SSR) is called...**

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- a) Transponder
- b) Interrogator.
- c) Decoder.
- d) Course indicator.

**57. A risk factor for decompression sickness is...**

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- a) 100 % oxygen after decompression.
- b) Sports.
- c) Smoking.
- d) Scuba diving prior to flight.

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**58. 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.

**59. Smoke enters the cockpit during an engine fire. Which actions have to be taken immediately?**

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- a) Switching off the pitot and front window heating
- b) Switching off the master switch and the ignition
- c) Switching off the heating and the ventilating system
- d) Switching off the avionics and the cabin lighting

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

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- 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

**61. Heavy downdrafts and strong wind shear close to the ground can be expected...**

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- a) During approach to an airfield at the coast with a strong sea breeze.
- b) During warm summer days with high, flattened Cu clouds.
- c) Near the rainfall areas of heavy showers or thunderstorms
- d) During cold, clear nights with the formation of radiation fog.

**62. What might be the reason for scratches on the tail stringer?**

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- a) Old colour
- b) Intense erosion
- c) Rotor blade contact
- d) Contact with ground

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**63. In airspace "D" a Boeing 737 and a Cessna 152 are flying on crossing courses. Which aeroplane has to divert?**

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- a) The aeroplane flying from right to left has priority, the other one has to divert
- b) The Boeing 737, because an airliner has greater power reserves
- c) The air traffic control (ATC) has to decide which one has to divert
- d) The Cessna 152, because IFR and commercial flights have priority

**64. Given: True course: 165°. TAS: 90 kt. Wind: 130°/20 kt. Distance: 153 NM. The true heading equals...**

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- a) 165°.
- b) 126°.
- c) 152°.
- d) 158°.

**65. 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

**66. Cold air inflow in high tropospheric layers may result in...**

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- a) Stabilisation and calm weather.
- b) Frontal weather.
- c) Calm weather and cloud dissipation.
- d) Showers and thunderstorms.

**67. What information is provided in the general part (GEN) of the AIP?**

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

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**68. What needs to be observed in conjunction with flying above mountainous terrain?**

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- a) Unexpected changes in weather and turbulence.
- b) Unexpected overspeed faults and vibrations
- c) Carburettor icing in piston engines
- d) Icing conditions over the predicted freezing level

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**69. 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

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**70. Visual illusions are mostly caused by...**

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- a) Colour blindness.
- b) Binocular vision.
- c) Misinterpretation of the brain.
- d) Rapid eye movements.



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## Response Scheme

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

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

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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: _____		