

# Exam simulation

PPL(H) - Private Pilot License - Communication



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STUDENT NAME:

DATE AND TIME:

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**01. When do you expect wind shear?**

- a) When passing a warm front
- b) During a summer day with calm winds
- c) During an inversion
- d) In calm wind in cold weather

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**02. Which of the following symptoms may indicate hypoxia?**

- a) Blue discolouration of lips and fingernails
- b) Muscle cramps in the upper body area
- c) Blue marks all over the body
- d) Joint pain in knees and feet

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**03. What has to be done before entering a TMZ?**

- a) Switch on the transponder, activate mode A, and squawk "IDENT"
- b) Switch on the transponder and activate mode A and C or mode S
- c) File a flight plan before the flight
- d) Request a clearance before entering

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**04. The primer is...**

- a) A nozzle in the Venturi tube of a carburettor for atomising the fuel.
- b) A mechanical switch in the cockpit to engage the turbocharger.
- c) A valve in the fuel control system for automatic mixture regulation.
- d) An auxiliary pump in the fuel system to facilitate engine starting.

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**05. Using primary ground radar, the direction of the aeroplane in relation to the antenna is determined by...**

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

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## 06. The reason for a stall at a given pitch angle can be...

- 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.

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

- 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

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

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

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## 09. Which components do rotor blades made of synthetic material contain?

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

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## 10. What is the most likely reason for the starter not turning when activated?

- a) The magnetos are defect
- b) The ignition is short-circuited
- c) The rotor break is engaged
- d) The alternator is defect

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## 11. Which transponder code indicates a loss of radio communication?

- a) 7000
- b) 7700
- c) 7600
- d) 2000

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## 12. 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...

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

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## 13. (For this question, please use annex PFP-062) According ICAO, what symbol indicates a civil airport (not international airport) with paved runway? (2,00 P.) Siehe Anlage 17



PFP-062

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

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**14. Which transponder code should be set during a radio failure without any request?**

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

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**15. If there is any doubt about ambiguity, a time of 1620 is to be transmitted as...**

- a) One six two zero.
- b) One thousand six hundred two zero.
- c) Two zero.
- d) Sixteen twenty.

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**16. Which dangerous attitudes are often combined?**

- a) Impulsivity and carefulness
- b) Macho and invulnerability
- c) Self-abandonment and macho
- d) Invulnerability and self-abandonment

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**17. Moderate to severe turbulence has to be expected...**

- a) Below thick cloud layers on the windward side of a mountain range.
- b) Overhead unbroken cloud layers.
- c) With the appearance of extended low stratus clouds (high fog)
- d) On the lee side of a mountain range when rotor clouds are present.

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**18. Vienna (LOWW) is located at 016° 34'E, Salzburg (LOWS) at 013° 00'E. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between Wien and Salzburg? (2,00 P.)**

- a) In Vienna the sunrise and sunset are about 14 minutes earlier than in Salzburg
- b) In Vienna the sunrise is 4 minutes later and sunset is 4 minutes earlier than in Salzburg
- c) In Vienna the sunrise and sunset are about 4 minutes later than in Salzburg
- d) In Vienna the sunrise is 14 minutes earlier and sunset is 14 minutes later than in Salzburg

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## 19. What does the abbreviation "FIR" stand for?

- a) Flight integrity receiver
- b) Flight information region
- c) Flow information radar
- d) Flow integrity required

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## 20. The directional information "12 o'clock" is correctly transmitted as...

- a) Twelve o'clock
- b) One two o'clock
- c) One two hundred
- d) One two.

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

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

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## 22. The rotor thrust is...

- 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.

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## 23. The DME reading is a...

- a) Slant range.
- b) Radial distance.
- c) Air range.
- d) Ground distance.

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**24. In which situation is it NOT possible to achieve a pressure compensation between the middle ear and the environment?**

- a) The eustachien tube is blocked
- b) All windows are completely closed
- c) Breathing takes place using the mouth only
- d) During a light and slow climb

**25. Which section of the flight manual describes the power required of a helicopter in a hover?**

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

**26. Why is it dangerous to pump the throttle for engine start in cold weather?**

- a) It may cause a carburettor fire
- b) Carburettor icing can occur
- c) The oil will become diluted
- d) The engine might start with not enough power

**27. What frontal line divides subtropical air from polar cold air, in particular across Central Europe?**

- a) Polar front
- b) Occlusion
- c) Warm front
- d) Cold front

**28. The altimeter can be checked on the ground by setting...**

- 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.

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## 29. The pitch angle of a tail rotor blade is changed...

- a) Cyclically.
- b) Collectively.
- c) Symmetrically.
- d) Asymmetrically.

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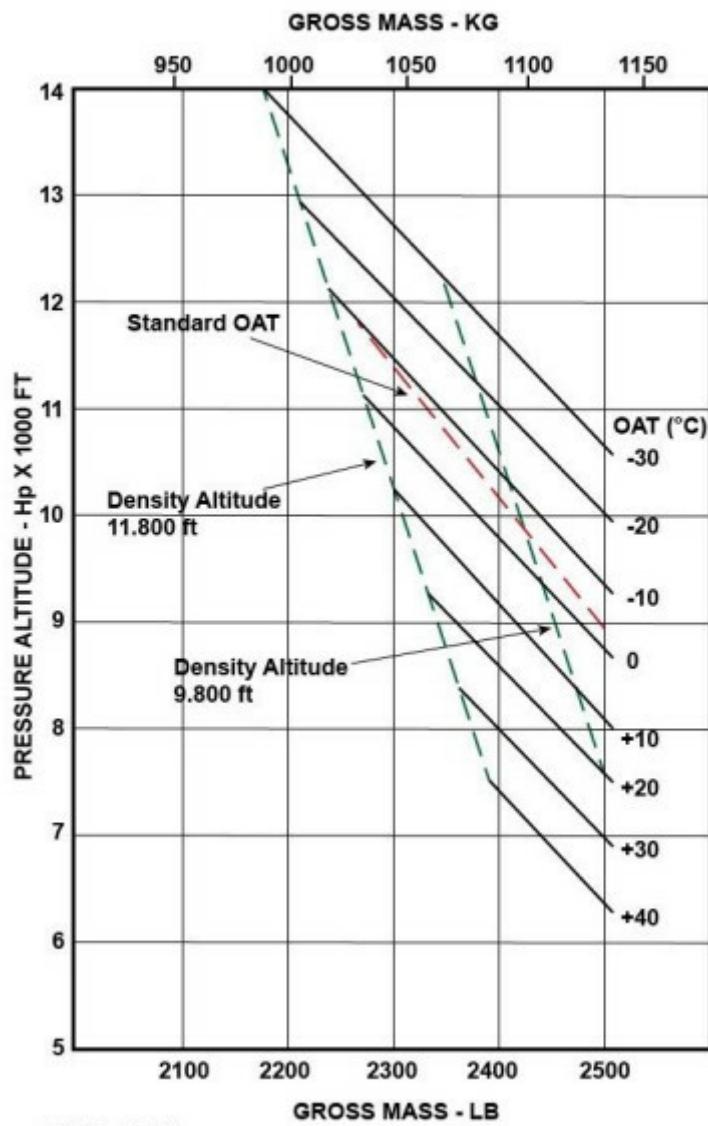
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30. What is the maximum pressure altitude to conduct a hover in ground effect if the helicopter mass equals 2400 lbs and the outside air temperature is +20° C? See annex (PFP-045) Siehe Anlage 13

## IGE HOVER CEILING VS. GROSS MASS



**PFP-045**

- a) 9000 ft
- b) 11000 ft
- c) 9500 ft
- d) 8600 ft

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

- 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

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## 32. The conversion factor from kilogram [kg] into pounds [lb] is...

- a)  $\text{Kg} / 2.205 = \text{lb}$ .
- b)  $\text{Kg} \times 2.205 = \text{lb}$ .
- c)  $\text{Kg} \times 0.454 = \text{lb}$ .
- d)  $\text{Kg} \times 2 = \text{lb}$ .

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33. Where is the aircraft located in relation to the VOR? See annex (NAV-022) Siehe Anlage 5



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

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

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

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## 35. What is the advantage of a pushing tail rotor over a pulling tail rotor?

- a) Gain of thrust by Coanda and Magnus effect due to the airflow around the tail boom
- b) Effective airflow of tail rotor blades by using the downwash
- c) Less thrust loss by free outflow of the accelerated air mass
- d) Self-compensating anti-torque operation by using the downwash

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## 36. Which of the instruments listed below obtain their readings through pressure measurement?

- a) Oil pressure gauge, fuel pressure gauge, manifold pressure gauge, altimeter, vertical speed indicator, airspeed indicator, suction gauge
- b) Oil pressure gauge, fuel pressure gauge, fuel quantity gauge, manifold pressure gauge, differential pressure gauge, altimeter
- c) Airspeed indicator, vertical speed indicator, altimeter, directional gyro, turn and bank coordinator, oil pressure gauge, fuel pressure gauge
- d) Airspeed indicator, vertical speed indicator, altimeter, magnetic compass, oil pressure gauge, fuel pressure gauge

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## 37. Where are the two polar circles?

- a) At a latitude of 20.5°S and 20.5°N
- b) 23.5° north and south of the poles
- c) 20.5° south of the poles
- d) 23.5° north and south of the equator

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## 38. Non-directional beacons (NDBs) transmit within which frequency band?

- a) Low frequency (LF) and medium frequency (MF)
- b) Very high frequency (VHF)
- c) Very low frequency (VLF) and low frequency (LF)
- d) High frequency (HF)

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## 39. What does a cloud coverage of "BKN" mean in a METAR weather report?

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

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**40. 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

**41. The term "tropopause" is defined as...**

- a) The boundary area between the mesosphere and the stratosphere.
- b) The boundary area between the troposphere and the stratosphere.
- c) The height above which the temperature starts to decrease.
- d) The layer above the troposphere showing an increasing temperature.

**42. The barometric altimeter indicates height above...**

- a) Mean sea level.
- b) Standard pressure 1013.25 hPa.
- c) Ground.
- d) A selected reference pressure level.

**43. What is the advantage of a hingeless rotor?**

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

**44. Which is the purpose of the altimeter subscale?**

- a) To set the reference level for the altitude decoder of the transponder
- b) To adjust the altimeter reading for non-standard temperature
- c) To correct the altimeter reading for system errors
- d) To reference the altimeter reading to a predetermined level such as mean sea level, aerodrome level or pressure level 1013.25 hPa

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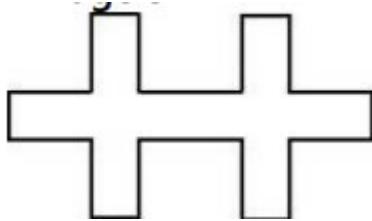


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**45. After lift-off, a much stronger than expected airspeed rise is experienced during the initial climb phase. What may be expected if the aeroplane entered a microburst?**

- 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

**46. What is the meaning of this sign at an aerodrome? See figure (ALW-011) Siehe Anlage 3**



- a) Glider flying is in progress
- b) Landing prohibited for a longer period
- c) After take-off and before landing all turns have to be made to the right
- d) Caution, manoeuvring area is poor

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

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

**48. The term 'civil twilight' is defined as...**

- 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.

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## 49. Visual illusions are mostly caused by...

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

## 50. Which is the most recently determined empty mass and the associated center of gravity (CG) arm from the aircraft documentation? See annex (PFP-006) Siehe Anlage 6

Date	Entry No.	Description of part or modification	Changes of Weight						Actual		
			Addition (+)			Subtraction (-)			Empty Weight		
			Weight [kg] ([lbs])	Arm [m] ([in.])	Moment [kgm] ([in.lbs])	Weight [kg] ([lbs])	Arm [m] ([in.])	Moment [kgm] ([in.lbs])	Weight [kg] ([lbs])	Arm [m] ([in.])	Moment [kgm] ([in.lbs])
2010	25.10.	GPS	5 kg	1,3 m	6,5 kgm				512 kg	285,39 m	1461,19 kgm
2010		10.11. ADF				6 kg	1,1 m	6,6 kgm	506 kg	284,29 m	1438,90 kgm
2011	04.03.	Left aft seat				12 kg	4,8 m	57,6 kgm	494 kg	279,49 m	1380,68 kgm
2011	06.11.	HSI	4 kg	1,1 m	4,4 kgm				498 kg	280,59 m	1397,33 kgm
<b>PFP-006</b>											

- a) 512 kg; 285.39 m
- b) 4 kg; 1.1 m
- c) 5 kg; 1.3 m
- d) 498 kg; 280.59 m

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

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

**52. What has to be considered when starting the engine in a strong wind condition?**

- a) The rotor brake should not be released before the engine runs with sufficient RPM.
- b) The cyclic stick should be taken backwards and the collective pitch shoud be raised.
- c) The mixture should be leaned and the carburettor heat fully pulled.
- d) The helicopter should be aligned with its longitudinal axis in the wind.

**53. Which force causes "wind"?**

- a) Pressure gradient force
- b) Thermal force
- c) Coriolis force
- d) Centrifugal force

**54. What ground features should preferably be used for orientation during visual flight?**

- a) Rivers, railroads, highways
- b) Farm tracks and creeks
- c) Border lines
- d) Two hundred eight five.

**55. A flight level is a...**

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

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**56. The rotor RPM is kept constant in the helicopter by the engine RPM. It can be influenced by the...**

- a) Cyclic stick.
- b) Throttle and the governor.
- c) Starter and the impulse coupling.
- d) Collective.

**57. What is the best combination of traits with respect to the individual attitude and behaviour for a pilot?**

- a) Extroverted - stable
- b) Introverted - unstable
- c) Extroverted - unstable
- d) Introverted - stable

**58. The connection between middle ear and nose and throat region is called...**

- a) Eardrum
- b) Eustachian tube.
- c) Inner ear.
- d) Cochlea.

**59. What process results in the formation of "advection fog"?**

- a) Cold, moist air is being moved across warm ground areas
- b) Warm, moist air is moved across cold ground areas
- c) Prolonged radiation during nights clear of clouds
- d) Cold, moist air mixes with warm, moist air

**60. In what case is visibility transmitted in meters?**

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

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**61. What is the mean height of the tropopause according to ISA (ICAO Standard Atmosphere)?**

- a) 11000 ft
- b) 36000 m
- c) 18000 ft
- d) 11000 m

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**62. The rotational axis of the Earth runs through the...**

- a) Magnetic north pole and on the magnetic south pole.
- b) Geographic North Pole and on the geographic South Pole.
- c) Geographic North Pole and on the magnetic south pole.
- d) Magnetic north pole and on the geographic South Pole.

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

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

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**64. How do you call fuel mixtures with a high amount of fuel?**

- a) Rich
- b) Empty
- c) Full
- d) Lean

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

- 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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## 66. How may windshear be recognised in flight?

- 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.

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

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

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## 68. The maximum range in an autorotation will be achieved by...

- a) A relatively low effective angle of attack.
- b) A neutral effective angle of attack.
- c) A relatively high effective angle of attack.
- d) A negative effective angle of attack.

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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

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## 70. What needs to be observed in conjunction with flying above mountainous terrain?

- 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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## Response Scheme

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

01: **C**

02: **A**

03: **B**

04: **D**

05: **A**

06: **B**

07: **C**

08: **B**

09: **A**

10: **C**

11: **C**

12: **A**

13: **D**

14: **C**

15: **A**

16: **B**

17: **D**

18: **A**

19: **B**

20: **A**

21: **A**

22: **A**

23: **A**

24: **A**

25: **A**

26: **A**

27: **A**

28: **C**

29: **B**

30: **D**

31: **C**

32: **B**

33: **C**

34: **A**

35: **C**

36: **A**

37: **B**

38: **A**

39: **D**

40: **D**

41: **B**

42: **D**

43: **B**

44: **D**

45: **A**

46: **A**

47: **B**

48: **C**

49: **C**

50: **D**

51: **A**

52: **D**

53: **A**

54: **A**

55: **B**

56: **B**

57: **A**

58: **B**

59: **B**

60: **A**

61: **D**

62: **B**

63: **A**

64: **A**

65: **A**

66: **B**

67: **D**

68: **C**

69: **C**

70: **A**

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## Response form

Use this form to mark your answers

01: \_\_\_\_\_

02: \_\_\_\_\_

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