

# Exam simulation

PPL(H) - Private Pilot License - Operational Procedures



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STUDENT NAME:

DATE AND TIME:

**01. What is the advantage of a turbulent airflow compared to a laminar airflow at an aerofoil with a high angle of attack?**

- a) It has a thinner boundary layer
- b) It has no form drag
- c) The separation point moves further forward
- d) It adheres to the aerofoil for a longer time

**02. Clouds are basically distinguished by what types?**

- a) Layered and lifted clouds
- b) Cumulus and stratiform clouds
- c) Thunderstorm and shower clouds
- d) Stratiform and ice clouds

**03. Which of the following qualities are influenced by stress? 1. Attention 2. Concentration 3. Responsiveness 4. Memory**

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

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

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

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**05. Measured pressure distribution in MSL and corresponding frontal systems are displayed by the...**

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

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

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

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**07. Being intercepted by a military aircraft at daytime, what is the meaning of the following signal: A sudden heading change of 90 degrees or more and a pull-up of the aircraft without crossing the track of the intercepted aircraft?**

- a) Follow me, i will bring you to the next suitable airfield
- b) You may continue your flight
- c) Prepare for a safety landing, you have entered a prohibited area
- d) You are entering a restricted area, leave the airspace immediately

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**08. What is the status of the rules and procedures created by the EASA? (e.g. Part-SFCL, Part-MED)**

- a) They are not legally binding, they only serve as a guide
- b) They have the same status as ICAO Annexes
- c) They are part of the EU regulation and legally binding to all EU member states
- d) Only after a ratification by individual EU member states they are legally binding

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**09. What is the minimum flight visibility in airspace "C" below FL 100 for an aircraft operating under VFR?**

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

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

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

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**11. Which of the following is responsible for the blood coagulation?**

- a) White blood cells (leucocytes)
- b) Blood plates (thrombocytes)
- c) Red blood cells (erythrocytes)
- d) Capillaries of the arteries

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**12. How is an air mass described when moving to Central Europe via the Russian continent during winter?**

- a) Maritime polar air
- b) Continental polar air
- c) Continental tropical air
- d) Maritime tropical air

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**13. Wake turbulence is caused by...**

- a) Jet blast behind a turbine engine.
- b) Turbulence at the downwind side of a mountain range.
- c) Wind shear at the wingtip of an aerofoil.
- d) Pressure compensation at the wingtip of an aerofoil.

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**14. An increase of stability in a helicopter causes...**

- a) A decrease of general aviation safety.
- b) A reduced controllability.
- c) An optimization of the maximum helicopter mass.
- d) An enhancement of control under negative load factors.

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

- a) 030°
- b) 330°
- c) 270°
- d) 360°

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

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

**17. How do manufacturers reduce the power output of their engines for use in helicopters?**

- a) Adjust the ignition timing
- b) Decrease the shaft RPM
- c) Reduce the combustion chamber
- d) Limit the fuel flow

**18. The control mixing assembly...**

- 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.

**19. During an autorotation with forward speed of a helicopter the driving forces are located in the...**

- a) Region of the retreating rotor blade.
- b) Inner region.
- c) Outer region.
- d) Region of the advancing rotor blade.

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## 20. What temperatures are most dangerous with respect to airframe icing?

- a) 0° to -12° C
- b) +20° to -5° C
- c) +5° to -10° C
- d) -20° to -40° C

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## 21. Which of the following is NOT a risk factor for hypoxia?

- a) Smoking
- b) Diving
- c) Menstruation
- d) Blood donation

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## 22. The advance angle is the angle between the...

- a) Advancing rotor blade and retreating rotor blade.
- b) Fixed control rod and lower scissors.
- c) Circumferential control rod and rotor blade longitudinal axis.
- d) Delta-three-flapping hinge and rotor blade longitudinal axis.

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## 23. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?

- a) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS.
- b) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection is +10°.
- c) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection is +10 NM.
- d) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS.

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## 24. The barometric altimeter indicates height above...

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

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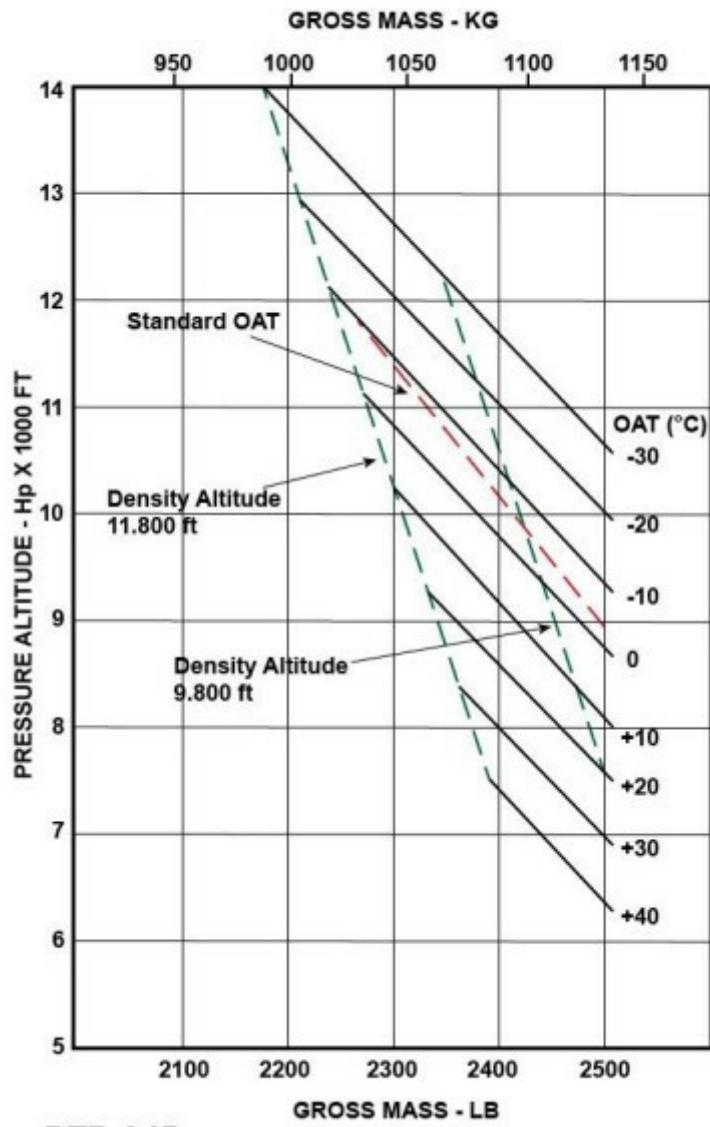
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25. What is the maximum helicopter mass to conduct a departure at 8000 feet pressure altitude and an outside air temperature of +20° C? Max. gross mass: 2500 lbs. Min. gross mass: 1600 lbs. See annex (PFP-045) Siehe Anlage 13

## IGE HOVER CEILING VS. GROSS MASS



**PFP-045**

- a) 1950 lbs
- b) 2500 lbs
- c) 1550 lbs
- d) 2460 lbs

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## 26. What is the gas composition of "air"?

- a) Oxygen 21 % Water vapour 78 % Noble gases / carbon dioxide 1 %
- b) Oxygen 21 % Nitrogen 78 % Noble gases / carbon dioxide 1 %
- c) Oxygen 78 % Water vapour 21 % Nitrogen 1 %
- d) Nitrogen 21 % Oxygen 78 % Noble gases / carbon dioxide 1 %

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## 27. Which section of the flight manual describes the basic empty mass of an aircraft?

- a) Limitations
- b) Normal procedures
- c) Performance
- d) Weight and balance

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## 28. 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.

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

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

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## 30. When transmitter and receiver are moving away from each other...

- a) The perceived frequency decreases.
- b) The perceived frequency equals the transmitted frequency
- c) The perceived frequency increases.
- d) The frequency varies, but the wavelength remains constant.

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## 31. What has to be considered when entering an RMZ?

- a) To obtain a clearance to enter this area
- b) To permanently monitor the radio and if possible to establish radio contact
- c) To obtain a clearance from the local aviation authority
- d) The transponder has to be switched on Mode C and squawk 7000

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## 32. What is the primary purpose of an aircraft accident investigation?

- a) To identify the reasons and work out safety recommendations
- b) To Determine the guilty party and draw legal consequences
- c) To clarify questions of liability within the meaning of compensation for passengers
- d) To work for the public prosecutor and help to follow-up flight accidents

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## 33. An inversion is a layer ...

- a) With increasing pressure with increasing height.
- b) With decreasing temperature with increasing height
- c) With increasing temperature with increasing height.
- d) With constant temperature with increasing height.

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## 34. What action is necessary in a modern helicopter during the transition to a horizontal turn?

- a) A control column movement forward or raising the collective
- b) Open the throttle in a helicopter with a rotor turning in an anti-clockwise direction seen from above
- c) Open the throttle in a helicopter with a rotor turning in a clockwise direction seen from above
- d) A control column movement backward or raising the collective

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## 35. What is the meaning of the abbreviation "SERA"?

- a) Standard European Routes of the Air
- b) Selective Radar Altimeter
- c) Specialized Radar Approach
- d) Standardized European Rules of the Air

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

- 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

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## 37. 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.

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## 38. What does the abbreviation "H24" stand for?

- a) Sunset to sunrise
- b) 24 h service
- c) No specific opening times
- d) Sunrise to sunset

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## 39. The droop stop...

- 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) Decreases the bending and tensional loads on the rotor blades in all flight conditions.

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## 40. An attitude director indicator (ADI) combines the information provided by...

- a) The attitude indicator and the relative bearing indicator.
- b) The directional gyro and the rate gyro.
- c) The attitude indicator and the flight director.
- d) The attitude indicator and the radio magnetic indicator.

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## 41. What is the purpose of the signal square at an aerodrome?

- a) It is an illuminated area on which search and rescue and fire fighting vehicles are placed
- b) It is a specially marked area to pick up or drop towing objects
- c) Aircraft taxi to this square to get light signals for taxi and take-off clearance
- d) It contains special symbols to indicate the conditions at the aerodrome visually to over-flying aircraft

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## 42. What types of airflow can be observed around a rotor blade aerofoil?

- a) Laminar airflow on the entire upper surface
- b) Laminar airflow at the leading edge, turbulent airflow further back
- c) Turbulent airflow at the leading edge, laminar airflow further back
- d) Turbulent airflow on the entire upper surface

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## 43. The pressure at MSL in ISA conditions is...

- a) 1123 hPa.
- b) 113.25 hPa.
- c) 1013.25 hPa.
- d) 15 hPa.

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## 44. The majority of aviation accidents are caused by...

- a) Geographical influences
- b) Meteorological influences.
- c) Human failure.
- d) Technical failure.

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## 45. 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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## 46. 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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## 47. Which of the listed radiotelephony messages has a higher priority than a flight safety message?

- a) Meteorological message
- b) Communication related to direction finding
- c) Flight regularity message
- d) Aircraft position report message

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## 48. 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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49. What is the true course (TC) from Uelzen (EDVU) (52°59'N, 10°28'E) to Neustadt (EDAN) (53°22'N, 011°37'E)?  
See annex (NAV-031) Siehe Anlage 2



- a)  $055^\circ$
- b)  $061^\circ$
- c)  $241^\circ$
- d)  $235^\circ$

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## 50. 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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## 51. Which area is suitable for an off-field landing?

- a) Glade with long dry grass
- b) Sports area in a village
- c) Harvested cornfield
- d) Plowed field

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## 52. Under what conditions may class D airspace be entered with a radio failure?

- a) There are other aircraft in the aerodrome circuit
- b) It is the destination aerodrome
- c) Approval has been granted before
- d) It is the aerodrome of departure

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## 53. 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

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## 54. What is the correct way of acknowledging the instruction "Call Hamburg Tower on 121.275"?

- a) 121.275
- b) Call 121.275
- c) Call tower
- d) Call tower on 121.275

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## 55. What happens during oil filter clocking?

- a) A bypass valve opens thus enabling the circulation to continue, debris will not be filtered
- b) The oil circulation will end after 30 minutes so that a proper engine run will not be guaranteed
- c) A bypass valve opens thus enabling the circulation to continue, debris will be filtered by an alternate filter
- d) The oil circulation will end after 15 minutes so that a proper engine run will not be guaranteed

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## 56. Which energies serve to maintain the rotor rpm in an autorotation?

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

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## 57. Which altitude is transmitted by the transponder in mode C?

- a) Radio altitude
- b) QFE altitude
- c) Pressure altitude
- d) QNH altitude

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## 58. The term 'True Course' (TC) is defined as...

- a) The direction from an arbitrary point on Earth to the geographic North Pole.
- b) The angle between true north and the course line.
- c) The angle between magnetic north and the course line.
- d) The direction from an arbitrary point on Earth to the magnetic north pole.

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## 59. What is the correct phrase to begin a blind transmission?

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

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

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

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

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

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## 62. What information is NOT found on Low-Level Significant Weather Charts (LLSWC)?

- a) Information about icing conditions
- b) Information about turbulence areas
- c) Front lines and frontal displacements
- d) Radar echos of precipitation

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63. What is the nature of the flight shown in the given ATC flight plan? See annex (PFP-051a) Siehe Anlage 11

PFP-051a			
3 MESSAGE TYPE <b>&lt;=(FPL</b>	7 AIRCRAFT IDENTIFICATION <b>O.E.A.B.C.</b>	8 FLIGHT RULES <b>V</b>	TYPE OF FLIGHT <b>G</b> <=
9 NUMBER <b>      </b>	TYPE OF AIRCRAFT <b>DV20</b>	WAKE TURBULENCE CAT. <b>/L</b>	10 EQUIPMENT <b>ORV /C</b> <=
13 DEPARTURE AERODROME <b>LOWK</b>	TIME <b>2,0,0</b> <=		
15 CRUISING SPEED <b>N0100</b>	LEVEL <b>F095</b>	ROUTE <b>KFT GRZ PUBEG SNU</b>	
16 DESTINATION AERODROME <b>LOWW</b>	TOTAL EET HR    MIN <b>0215</b>	ALTN AERODROME <b>LOAN</b>	2ND ALTN AERODROME <b>      </b> <=
18 OTHER INFORMATION <b>      </b>			

- a) Flight under instrument flight rules.
- b) Border crossing flight.
- c) Night flight under visual flight rules.
- d) Traffic pattern under visual flight rules.

64. Temperatures will be given by meteorological aviation services in Europe in which unit?

- a) Degrees Fahrenheit
- b) Gpdam
- c) Degrees Centigrade (° C)
- d) Kelvin

65. 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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**66. What phenomenon is caused by cold air downdrafts with precipitation from a fully developed thunderstorm cloud?**

- a) Anvil-head top of Cb cloud
- b) Freezing Rain
- c) Electrical discharge
- d) Gust front

**67. What is the meaning of a flashing red light signal at a controlled aerodrome directed to an aircraft on ground?**

- a) Return to starting point
- b) Cleared to taxi
- c) Cleared for take-off
- d) Immediately taxi clear of runway in use

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

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

**69. How often shall a blind transmission be made?**

- a) One time
- b) Three times
- c) Two times
- d) Four times

**70. Which direction corresponds to 'compass north' (CN)?**

- a) The angle between the aircraft heading and magnetic north
- b) The direction to which the direct reading compass aligns due to earth's and aircraft's magnetic fields
- c) The most northerly part of the magnetic compass in the aircraft, where the reading takes place
- d) The direction from an arbitrary point on Earth to the geographical North Pole

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## Response Scheme

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

01: **D**

02: **B**

03: **A**

04: **A**

05: **D**

06: **B**

07: **B**

08: **C**

09: **A**

10: **A**

11: **B**

12: **B**

13: **D**

14: **B**

15: **B**

16: **C**

17: **B**

18: **B**

19: **A**

20: **A**

21: **B**

22: **C**

23: **D**

24: **D**

25: **D**

26: **B**

27: **D**

28: **B**

29: **B**

30: **A**

31: **B**

32: **A**

33: **C**

34: **D**

35: **D**

36: **B**

37: **B**

38: **B**

39: **B**

40: **C**

41: **D**

42: **B**

43: **C**

44: **C**

45: **D**

46: **D**

47: **B**

48: **A**

49: **B**

50: **B**

51: **C**

52: **C**

53: **A**

54: **A**

55: **A**

56: **A**

57: **C**

58: **B**

59: **B**

60: **B**

61: **C**

62: **D**

63: **C**

64: **C**

65: **C**

66: **D**

67: **D**

68: **B**

69: **A**

70: **B**

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## Response form

Use this form to mark your answers

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

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

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