

# Exam simulation

PPL(H) - Private Pilot License - Meteorology



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STUDENT NAME:

DATE AND TIME:

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

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

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**02. In what case is the pilot allowed to abbreviate the call sign of his aircraft?**

- a) Within controlled airspace
- b) If there is little traffic in the traffic circuit
- c) After passing the first reporting point
- d) After the ground station has used the abbreviation

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**03. The power output of a turbine engine is limited by...**

- a) Auxiliary equipment rack and exhaust system in multi-shaft turbine engines.
- b) Compressor RPM, turbine inlet temperature, and main rotor gearbox.
- c) Fuel type, burn rate, and exhaust system.
- d) Freewheel unit and main rotor gearbox in single-shaft turbine engines.

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**04. How does air temperature change in ISA from MSL to approx. 10.000 m height?**

- a) From +30° to -40°C
- b) From +20° to -40°C
- c) From +15° to -50°C
- d) From -15° to 50°C

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**05. What could be a reason for changing the runway indicators at aerodromes (e.g. from runway 06 to runway 07)?**

- a) The magnetic deviation of the runway location has changed
- b) The true direction of the runway alignment has changed
- c) The magnetic variation of the runway location has changed
- d) The direction of the approach path has changed

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**06. Which answer is correct with regard to separation in airspace "E"?**

- a) IFR traffic is separated only from VFR traffic
- b) VFR traffic is separated only from IFR traffic
- c) VFR traffic is separated from VFR and IFR traffic
- d) VFR traffic is not separated from any other traffic

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**07. Given: TC: 179°; WCA: -12°; VAR: 004° E; DEV: +002° What are MH and MC?**

- a) MH: 167°. MC: 161°.
- b) MH: 163°. MC: 175°.
- c) MH: 163°. MC: 161°.
- d) MH: 167°. MC: 175°.

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**08. The slip indicator's ball (apparent vertical) has moved to the right during a right turn. By what actions may the ball be led back to middle position?**

- a) Reduce speed, increase bank
- b) Reduce bank, increase rate of turn
- c) Reduce rate of turn, reduce bank
- d) Increase bank, increase rate of turn

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

- 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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**10. Which information from a ground station does not require readback?**

- a) Taxi instructions
- b) Altimeter setting
- c) Heading
- d) Traffic information

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**11. Which of the following options does NOT stimulate motion sickness (disorientation)?**

- a) Non-accelerated straight and level flight
- b) Turbulence in level flight
- c) Head movements during turns
- d) Flying under the influence of alcohol

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**12. In what cases is visibility transmitted in kilometers?**

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

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**13. 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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**14. What can be expected during a hover flight in ground effect within a forest glade?**

- 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

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**15. What does the abbreviation "FIS" stand for?**

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

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

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

**17. What kind of information should be included in an urgency message?**

- 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

**18. The distance between the center of gravity and the datum is called...**

- a) Lever.
- b) Balance arm.
- c) Torque.
- d) Span width.

**19. Which of the stated relationships between lift and drag applies best for a flying helicopter (lift : drag)?**

- a) 1 : 45
- b) 1 : 2
- c) 2 : 1
- d) 45 : 1

**20. What is the call sign of the surface movement control?**

- a) Ground
- b) Earth
- c) Tower
- d) Control

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**21. Which option describes the term "asymmetric airflow"?**

- a) During cruise flight the advancing rotor blade has more airflow than the retreating rotor blade
- b) The displacement of the driving forces to the advancing rotor blade in a vertical autorotation
- c) The difference in required performance during hover in and out of ground effect
- d) The greater lift in the outer region of the rotor as opposed to the inner region

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**22. An ATIS is valid for...**

- a) 45 minutes
- b) 10 minutes.
- c) 30 minutes.
- d) 60 minutes.

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**23. What is the distance between the two parallels of longitude 150°E and 151°E along the equator?**

- a) 111 NM
- b) 1 NM
- c) 60 km
- d) 60 NM

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**24. 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

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**25. An altitude of 4500 ft is transmitted as...**

- a) Four five zero zero.
- b) Four five thousand.
- c) Four thousand five zero zero.
- d) Four thousand five hundred.

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**26. Which phrase is used by a pilot when he wants to fly through controlled airspace?**

- a) Would like
- b) Want
- c) Request
- d) Apply

**27. A flight level is a...**

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

**28. Mountain side updrafts can be intensified by ...**

- a) By warming of upper atmospheric layers
- b) Thermal radiation of the windward side during the night
- c) Solar irradiation on the lee side
- d) Solar irradiation on the windward side

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

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

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**30. 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

**31. Which abbreviation is used for the term "obstacle"?**

- a) OBTC
- b) OBST
- c) OBS
- d) OST

**32. The ground effect is noticeable by...**

- a) Strong vertical oscillations.
- b) Strong horizontal vibrations.
- c) Larger power requirements.
- d) Lower power requirements.

**33. 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

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**34. During lift-off the helicopter rotates much more than expected. This indicates that...**

- a) The helicopter is overloaded.
- b) The centre of gravity is much more aft than expected.
- c) The centre of hub is overhead of the centre of gravity.
- d) The power required equals the power available.

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**35. Who provides search and rescue service?**

- a) International approved organisations
- b) Both military and civil organisations
- c) Only military organisations
- d) Only civil organisations

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**36. Which gas is most dangerous during an engine fire?**

- a) Nitrogen
- b) Carbon monoxide
- c) Carbon dioxide
- d) Oxygen

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**37. Calculated take-off mass = 1082 kg, calculated CG = 0.254 m, fuel burn = 55 l on station 0.40 m. Where is the CG situated after the landing?**

- a) 24.8 cm
- b) 25.2 cm
- c) 24.6 cm
- d) 25.4 cm

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**38. 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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**39. What danger is most imminent when an aircraft is hit by lightning?**

- a) Rapid cabin depressurization and smoke in the cabin
- b) Surface overheat and damage to exposed aircraft parts
- c) Disturbed radio communication, static noise signals
- d) Explosion of electrical equipment in the cockpit

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**40. What should be observed when taxiing behind a commercial airliner?**

- a) To avoid the jet blast, a minimum distance of 200 m should be maintained
- b) To avoid the jet blast, a minimum distance of 600 m should be maintained
- c) To avoid wake turbulence, a minimum distance of 300 m should be maintained
- d) To avoid wake turbulence, a minimum distance of 700 m should be maintained

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**41. 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.

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**42. What is the correct phrase with respect to wake turbulence to indicate that a light aircraft is following an aircraft of a higher wake turbulence category?**

- a) Caution wake turbulence
- b) Danger jet blast
- c) Be careful wake winds
- d) Attention propwash

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**43. During hover flight, the induced airflow velocity...**

- a) Is equal above and below the rotor.
- b) Increases further having passed the rotor.
- c) Remains constant after having passed the rotor.
- d) Decreases after having passed the rotor.

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## 44. What is the correct way to transmit the call sign HB-YKM?

- a) Hotel Bravo Yuliett Kilo Mikro
- b) Home Bravo Yankee Kilo Mikro
- c) Hotel Bravo Yankee Kilo Mike
- d) Home Bravo Yuliett Kilo Mike

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## 45. An aircraft is flying from 'A' to 'B' (distance 220 NM) at an average ground speed (GS) of 120 kt. It departs 'A' at 1200 UTC. After 70 NM along the course from 'A', the aircraft is 5 min ahead of the planned schedule. Using the actual GS, what is the revised estimated time of arrival (ETA) at B?

- a) 1330 UTC
- b) 1340 UTC
- c) 1345 UTC
- d) 1335 UTC

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## 46. What shall be considered before terminating a turn in an autorotation?

- a) The Coriolis force causes an increase in the main rotor rpm
- b) The pitch angle must be decreased by using the collective pitch lever again
- c) The decreasing gravity relieves the main rotor and the helicopter cabin
- d) The flight velocity shall be increased to obtain all the kinetic energy

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## 47. In what situation is it appropriate to set the transponder code 7600?

- a) Emergency
- b) Hijacking
- c) Flight into clouds
- d) Loss of radio

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## 48. 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.

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

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

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## 50. What needs to be observed in particular when performing a slope landing?

- a) Direction of rotation of the main rotor
- b) Slipping of the helicopter
- c) Width of the landing skids.
- d) Faulty navigation lights.

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## 51. 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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## 52. The highest absorbtion of humidity in fuel can be observed in which situation?

- a) During parking on cold aprons
- b) Almost empty tanks
- c) Almost full tanks
- d) During parking on wet grass areas

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## 53. When air masses meet each other head on, how is this referred to and what air movements will follow?

- a) Convergence resulting in air being lifted
- b) Divergence resulting in air being lifted
- c) Convergence resulting in sinking air
- d) Divergence resulting in sinking air

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**54. The measurement of altitude is based on the change of the...**

- a) Static pressure.
- b) Dynamic pressure.
- c) Total pressure.
- d) Differential pressure.

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**55. What is the call sign of the aerodrome control?**

- a) Airfield
- b) Ground
- c) Tower
- d) Control

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

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

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**57. Which of the following frequencies is designated for VHF voice communication?**

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

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**58. What is the meaning of the phrase "Approved"?**

- a) An error has been made in this transmission. The correct version is...
- b) I have received all of your last transmission
- c) Permission for proposed action is granted
- d) I understand your message and will comply with it

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**59. 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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**60. What is the correct term for a message used for air traffic control?**

- a) Flight regularity message
- b) Message related to direction finding
- c) Flight safety message
- d) Meteorological message

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**61. Which of the following messages has the highest priority?**

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

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**62. 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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**63. 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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**64. 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

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**65. How can wind speed and wind direction be derived from surface weather charts?**

- a) By annotations from the text part of the chart
- b) By alignment of lines of warm- and cold fronts
- c) By alignment and distance of hypsometric lines
- d) By alignment and distance of isobaric lines

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**66. What is the correct term for the system which, among others, controls breathing, digestion, and heart frequency?**

- a) Critical nervous system
- b) Automatical nervous system
- c) Autonomic nervous system
- d) Compliant nervous system

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**67. 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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**68. 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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**69. 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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**70. A delta-three hinge is used to allow...**

- 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.

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## Response Scheme

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

01: **B**

02: **D**

03: **B**

04: **C**

05: **C**

06: **D**

07: **B**

08: **B**

09: **B**

10: **D**

11: **A**

12: **B**

13: **A**

14: **D**

15: **A**

16: **C**

17: **B**

18: **B**

19: **D**

20: **A**

21: **A**

22: **C**

23: **D**

24: **B**

25: **D**

26: **C**

27: **B**

28: **D**

29: **B**

30: **A**

31: **B**

32: **D**

33: **A**

34: **B**

35: **B**

36: **B**

37: **A**

38: **A**

39: **B**

40: **A**

41: **C**

42: **A**

43: **B**

44: **C**

45: **D**

46: **B**

47: **D**

48: **B**

49: **C**

50: **B**

51: **B**

52: **B**

53: **A**

54: **A**

55: **C**

56: **B**

57: **A**

58: **C**

59: **A**

60: **C**

61: **C**

62: **C**

63: **B**

64: **D**

65: **D**

66: **C**

67: **B**

68: **D**

69: **C**

70: **A**

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## Response form

Use this form to mark your answers

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

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

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