

Exam simulation

PPL(H) - Private Pilot License - Operational Procedures



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STUDENT NAME:

DATE AND TIME:

01. What behavior does a helicopter without stabilization systems show after external disturbances in a hover, without a corrective action?

- a) Statically stable and dynamically instable
- b) Statically stable and dynamically stable
- c) Statically indifferent and dynamically instable
- d) Statically stable and dynamically indifferent

02. May an engine, which previously was on fire, be restarted?

- 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 re-ignition of the fire would be too high
- d) Yes, if the aircraft is flying at a safe altitude

03. A flight level is a...

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

04. Which type of cloud is associated with prolonged rain?

- a) Cumulonimbus
- b) Nimbostratus
- c) Cirrostratus
- d) Altocumulus

05. A wind shear is...

- a) A vertical or horizontal change of wind speed and wind direction.
- b) A wind speed change of more than 15 kt.
- c) A meteorological downslope wind phenomenon in the alps.
- d) A slow increase of the wind speed in altitudes above 13000 ft.

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06. The transitional lift can be noticed by...

- a) An aural warning
- b) Strong load factors
- c) Vibrations
- d) A loss of engine rpm

07. At what rate does the temperature change with increasing height according to ISA (ICAO Standard Atmosphere) within the troposphere?

- a) Decreases by 2° C / 100 m
- b) Decreases by 2° C / 1000 ft
- c) Increases by 2° C / 100 m
- d) Increases by 2° C / 1000 ft

08. Which statement about the required force to change the pitch angle is correct?

- a) It is the smallest by using an advance angle of 90°
- b) It is the smallest by using a delta-three-hinge
- c) It must be greater than the rotor disc loading
- d) It must be greater than the tangential force

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

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

10. After take-off an aeroplane gets into a wind shear with decreasing headwind. As a result...

- a) The aeroplane flies below the estimated climb path.
- b) The aeroplane flies above the estimated climb path.
- c) The ground speed (GS) will decrease.
- d) The true airspeed (TAS) will increase.

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11. Point A on the Earth's surface lies exactly on the parallel of latitude of 47°50'27"N. Which point is exactly 240 NM north of A?

- a) 49°50'27"N
- b) 53°50'27"N
- c) 43°50'27"N
- d) 51°50'27"N

12. Which weather phenomenon is typically associated with wind shear?

- a) Invernal warm front.
- b) Thunderstorms.
- c) Stable high pressure areas.
- d) Fog.

13. QFE is the...

- a) Barometric pressure adjusted to sea level, using the international standard atmosphere (ISA).
- b) Magnetic bearing to a station.
- c) Barometric pressure at a reference datum, typically the runway threshold of an airfield.
- d) Altitude above the reference pressure level 1013.25 hPa.

14. 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

15. What condition has to be met during a Special VFR flight?

- a) Visual reference to the terrain
- b) A minimum distance to clouds of 2000 m
- c) At least 500 m ground visibility
- d) Speed not above 115 kt IAS

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16. What is caused by the movement of the cyclic stick?

- a) The swash plate is inclined and thus changes the pitch angle of the blades periodically
- b) The lower scissors are twisted and consequently the pitch angle of the rotor blade is changed periodically
- c) The sliding sleeve is axially moved and thus changes the pitch angle of the rotor blades collectively
- d) The trim panels are inclined and consequently a torque on the rotor blade is produced

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

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

18. 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

19. 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

20. What is a latent error?

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

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21. Lower-than-standard temperature may lead to...

- a) An altitude indication which is too high.
- b) A correct altitude indication as long as the altimeter subscale is set to correct for non-standard temperature.
- c) A blockage of the Pitot tube by ice, freezing the altimeter indication to its present value.
- d) An altitude indication which is too low.

22. Which of the following documents have to be on board for an international flight? a) Certificate of aircraft registration b) Certificate of airworthiness c) Airworthiness review certificate d) EASA Form-1 e) Airplane logbook f) Appropriate papers for every crew member g) Technical logbook

- a) D, f, g
- b) B, c, d, e, f, g
- c) A, b, c, e, f
- d) A, b, e, g

23. What does the abbreviation "FIR" stand for?

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

24. What is the lowest possible VFR flight level if a true course of 181° is selected and a variation of 3° east exists?

- a) FL 065
- b) FL 060
- c) FL 055
- d) FL 050

25. What is the correct way of acknowledging "You are now entering airspace Delta"?

- a) Wilco
- b) Entering
- c) Roger
- d) Airspace Delta

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26. 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

27. The pilot wants to refuel the helicopter after a cold night early in the morning. What needs to be checked before starting the engine?

- a) VHF communication for transmission
- b) Carburettor heat for function
- c) Left seat controls for damage and tight fit
- d) Fuel for water content and impurities

28. 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

29. Wings level after a longer period of turning can lead to the impression of...

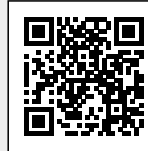
- a) Starting a climb.
- b) Steady turning in the same direction as before.
- c) Starting a descent.
- d) Turning into the opposite direction.

30. When is it necessary to adjust the pressure in the reference scale of an altimeter?

- a) After maintenance has been finished
- b) Once a month before flight operation
- c) Before every flight and during cross country flights
- d) Every day before the first flight

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31. 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

32. The maximum endurance with a helicopter is achieved by flying at...

- a) A lower speed than for maximum range and at the lowest altitude that is safely possible.
- b) The same speed as for maximum range and at optimum height.
- c) A lower speed than for maximum range and at the service ceiling.
- d) A higher speed than for maximum range and at the lowest altitude that is safely possible.

33. What should be considered regarding a scheduled flight over water, when land cannot be reached in case of an emergency landing?

- a) The flight plan has to contain the exact waypoints
- b) Contact to the nearest ATC shall consist during the whole flight
- c) Transponder code 7600 has to be set during the whole flight
- d) For all passengers there must be life jackets or lifeboats present

34. What weather development will result from convergence at ground level?

- a) Ascending air and cloud dissipation
- b) Descending air and cloud dissipation
- c) Ascending air and cloud formation
- d) Descending air and cloud formation

35. Which distances to clouds have to be maintained during a VFR flight in airspaces C, D and E?

- a) 1500 m horizontally, 1000 ft vertically
- b) 1000 m horizontally, 300 m vertically
- c) 1500 m horizontally, 1000 m vertically
- d) 1000 m horizontally, 1500 ft vertically

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36. 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

37. 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

38. What impression may be caused when approaching a runway with an upslope?

- a) A landing beside the centerline
- b) An overshoot
- c) An undershoot
- d) A hard landing

39. What does the abbreviation "QTE" stand for?

- a) Magnetic bearing to the station
- b) True bearing to the station
- c) True bearing from the station
- d) Magnetic bearing from the station

40. Which transponder code has to be set unrequested during an emergency?

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

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41. The neutral point is a point where...

- a) The aerodynamic forces act torque-free
- b) The imaginary axes of a helicopter meet each other
- c) The entire helicopter mass can be assumed to attack
- d) The torque at the chord line remains constant for changing angles of attack

42. Which gas is most dangerous during an engine fire?

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

43. What factors are required for the formation of precipitation in clouds?

- a) Calm winds and intensive sunlight insolation
- b) The presence of an inversion layer
- c) High humidity and high temperatures
- d) Moderate to strong updrafts

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44. According to the aeronautical chart, Friesach/Hirt (LOKH) has a 707 m grass runway. Prevailing runway is 17 due to a surface wind of 18010KT. The required landing distance for your aircraft under present conditions is 550 m. Considering the NOTAM below, is it safe to plan LOKH as an alternate aerodrome? See figure (PFP-026)

B1066/11 NOTAMR B0680/11

Q)

LOVV/QMRCM/IV/NBO/A/000/999/4656N01426E005

E) THRESHHOLD RWY17 DISPLACED 207M INWARDS

DUE TO HIGH TREES 300M N OF RWY 17.

LANDING DISTANCE AVAILABLE (LDA) 500M.

TAKE-OFF RUN AVAILABLE (TORA) RWY 17/35

AND LANDING DISTANCE AVAILABLE (LDA)

RWY 35 707M.

MARKINGS ARE INSTALLED AT BOTH EDGES OF THE

RUNWAY ACCORDING ZFV.

- a) No.
- b) Yes.
- c) Don't know.
- d) Maybe.

45. 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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46. Which is the colour of runway edge lights?

- a) White
- b) Blue
- c) Red
- d) Green

47. A risk factor for decompression sickness is...

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

48. What is the percentage of oxygen in the atmosphere at 6000 ft?

- a) 18.9 %
- b) 12 %
- c) 78 %
- d) 21 %

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

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

50. 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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51. What happens to thrust and tangential force if the rotor RPM decreases by about 10 % in cruise flight?

- a) The thrust and the tangential force decrease
- b) The thrust and the tangential force increase
- c) The thrust decreases and the tangential force remains constant
- d) The thrust remains constant and the tangential force increases

52. 5500 m equal...

- a) 10000 ft.
- b) 7500 ft.
- c) 18000 ft.
- d) 30000 ft.

53. V_x is the speed...

- a) For the best rate of climb
- b) For the best angle of climb
- c) To rotate
- d) Never to be exceeded

54. What shape of a rotor blade has a positive impact on the lift distribution?

- a) Rectangular blade with a geometric setting of 1°
- b) Double trapezoidal rotor blade with a radius at the blade tip
- c) Trapezoidal blade without radius at the blade tip
- d) Rectangular trapezoidal blade with no aerodynamic twist

55. The majority of aviation accidents are caused by...

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

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56. What weather conditions can be expected in high pressure areas during winter?

- a) Changing weather with passing of frontal lines
- b) Calm winds and widespread areas with high fog
- c) Calm weather and cloud dissipation, few high Cu
- d) Squall lines and thunderstorms

57. How much taxi fuel must be consumed before take-off to reduce the aircraft mass to the maximum take-off mass? Maximum ramp mass (MRM): 1150 kg Actual ramp mass: 1148 kg Maximum take-off mass (MTOM): 1145 kg

- a) 3 L
- b) 4 L
- c) 2 L
- d) 5 L

58. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 030° to a heading of 180°. At approximately which indicated magnetic heading should the turn be terminated?

- a) 150°.
- b) 360°.
- c) 180°.
- d) 210°.

59. The power output of a piston engine is limited by...

- a) Exhaust system.
- b) Main rotor gearbox.
- c) Crankcase.
- d) Centrifugal clutch.

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

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

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61. The angle between compass north and magnetic north is called...

- a) Variation
- b) WCA
- c) Deviation
- d) Inclination

62. The bank angle of a 2-minutes circle depends on the...

- a) CAS.
- b) TAS.
- c) IAS.
- d) Ground speed.

63. Which statement about a rhumb line is correct?

- a) A rhumb line is a great circle intersecting the equator with 45° angle
- b) The center of a complete cycle of a rhumb line is always the Earth's center
- c) A rhumb line cuts each meridian at the same angle
- d) The shortest track between two points along the Earth's surface follows a rhumb line

64. Which transponder code indicates a loss of radio communication?

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

65. 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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66. A flight is called a "visual flight", if the...

- a) Flight is conducted in visual meteorological conditions.
- b) Visibility in flight is more than 8 km.
- c) Visibility in flight is more than 5 km.
- d) Flight is conducted under visual flight rules.

67. Under which circumstances is it more likely to accept higher risks?

- 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

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

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

69. At higher altitudes, true airspeed (TAS) tends to be higher than calibrated airspeed (CAS). A rough estimate of the TAS can be obtained by...

- a) Subtracting 2 % of the CAS for every 1000 ft altitude.
- b) Adding 2 % of the CAS for every 1000 ft altitude.
- c) Subtracting 10 % of the CAS for every 1000 m altitude.
- d) Adding 10 % of the CAS for every 1000 ft altitude.

70. What is the difference between primary and secondary radar?

- a) The pulses of a primary radar are reflected by the aircraft's surface, the pulses of a secondary radar system are answered by a transponder
- b) The pulses of a primary radar are variably pulse-modulated, the pulses of a secondary radar are statically amplitude-modulated
- c) The pulses of a primary radar are variably amplitude-modulated, the pulses of a secondary radar are statically pulse-modulated
- d) The primary radar is displayed on a computer screen, the secondary radar on a radar strip

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Response Scheme

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

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

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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: _____		