

Exam simulation

PPL(H) - Private Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

01. 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

02. How does inflowing cold air affect the shape and vertical distance between pressure layers?

- a) Increase in vertical distance, lowering in height (low pressure)
- b) Decreasing vertical distance, raise in height (high pressure)
- c) Decrease in vertical distance, lowering in height (low pressure)
- d) Increasing vertical distance, raise in height (high pressure)

03. Air consists of oxygen, nitrogen and other gases. What is the approximate percentage of other gases?

- a) 21 %
- b) 1 %
- c) 0.1 %
- d) 78 %

04. Which abbreviation is used for the term "obstacle"?

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

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

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

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06. The load factor "n" describes the relationship between...

- a) Drag and lift.
- b) Thrust and drag.
- c) Lift and weight.
- d) Weight and thrust.

07. Why does a flare during an autorotation generate higher rotor RPM?

- a) The pitch angle increases
- b) The vertical airflow through the rotor disc increases
- c) The tangential force tilts backwards
- d) The ground effect leads to better performance

08. Air descending behind a mountain range is defined as...

- a) Anabatic wind.
- b) Divergent wind.
- c) Katabatic wind.
- d) Convergent wind.

09. 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.

10. The drive system of the autogyro's main rotor is based on...

- a) The speed of the airflow.
- b) A fan in the cabin.
- c) An engine in the cabin.
- d) An engine at the rotor blade tip

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11. What has to be considered when taking off in a ground inversion?

- a) Due to low temperatures close to the ground, icing has to be expected
- b) Climb should be performed with the lowest possible speed and maximum power
- c) During the climb, a sudden increase in speed and climb performance has to be expected
- d) During climb, a sudden decrease in speed and climb performance has to be expected

12. The connection between the main rotor mast and the main rotor head is...

- a) Screwed.
- b) Welded.
- c) Pressed.
- d) Glued.

13. Which of the following options states a correct position report?

- a) DEABC reaching "N"
- b) DEABC, "N", 2500 ft
- c) DEABC over "N" at 35
- d) DEABC over "N" in FL 2500 ft

14. Which optical illusion might be caused by a runway with an upslope during the approach?

- a) The pilot has the feeling that the approach is too high and therefore descends below the regular glide slope
- b) The pilot has the feeling that the approach is too low and therefore approaches the runway above the regular glide slope
- c) The pilot has the feeling that the approach is too slow and speeds up above the normal approach speed
- d) The pilot has the feeling that the approach is too fast and reduces the speed below the normal approach speed

15. A helicopter 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...

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

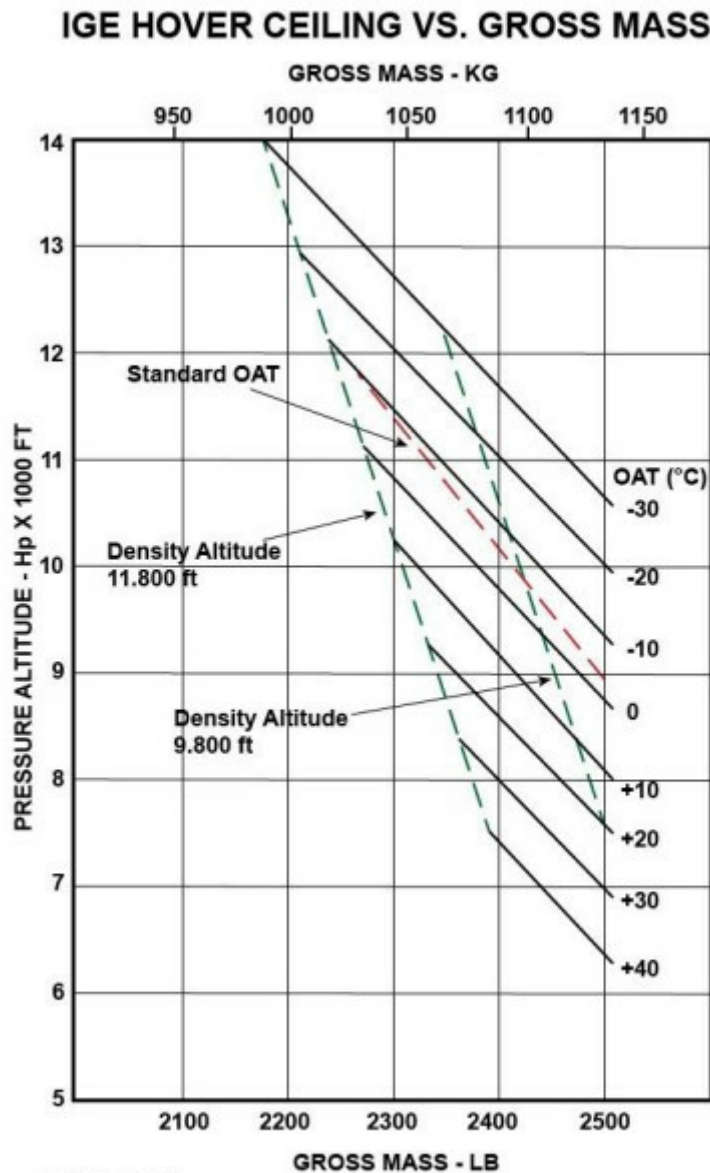
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16. What is the maximum pressure altitude to conduct a hover in ground effect if the helicopter mass equals 2400 lbs and the outside air temperature is +20° C? See annex (PFP-045) Siehe Anlage 13



PFP-045

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

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17. What is the meaning of the abbreviation "IFR"?

- a) Instrument Meteorological Conditions
- b) Commercial Flight Rules
- c) Bad Weather Flight Rules
- d) Instrument Flight Rules

18. 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

19. 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

20. The shown NOTAM is valid until... A) 1024/13 B) LOWW C) 1305211200 D) 1305211400 E) STOCKERAU VOR STO 113.00 UNSERVICEABLE.

- a) 21/05/2014 13:00 UTC.
- b) 21/05/2013 14:00 UTC.
- c) 13/05/2013 12:00 UTC.
- d) 13/10/2013 00:00 UTC.

21. The term "flight time" is defined as...

- a) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown.
- b) The total time from the first take-off until the last landing in conjunction with one or more consecutive flights.
- c) The period from the start of the take-off run to the final touchdown when landing.
- d) The total time from the first aircraft movement until the moment it finally comes to rest at the end of the flight.

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22. Which statement about the rotor disc loading in a horizontal curve is correct?

- a) It decreases with increasing bank angle
- b) It increases with increasing bank angle
- c) No change in relation to the cruise flight
- d) Effects depend on the type of helicopter

23. Leaving a control frequency (except when reaching the final parking position)...

- a) Must be approved.
- b) Is not mandatory to be reported.
- c) Must be reported
- d) Must be approved twice.

24. Of what shape is a landing direction indicator?

- a) T
- b) An angled arrow
- c) A straight arrow
- d) L

25. 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.

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

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

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

28. Urgency messages are messages...

- a) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight.
- b) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- c) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.
- d) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation.

29. What causes the phase lag between the displacement and the flapping of a rotor blade?

- a) Rounding of the rotor blade tips
- b) Inertia, mass, and aerodynamic forces
- c) Friction in the rotor blade spindles
- d) Advance or retreat angle of 90°

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

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

31. The rotor blade shape takes effect on the...

- a) Lift distribution.
- b) Rotor head used.
- c) Noch sensitivity.
- d) Structural take-off mass.

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32. 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

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

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

34. 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

35. 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

36. 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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37. Quasi-optical waves travel...

- a) Through the air directly from the transmitter to the receiver.
- b) Through the air and are influenced (e.g. reflected) by the ionosphere.
- c) Along the surface of the earth.
- d) Along the surface of the earth, but are absorbed by the sea.

38. The effective angle of attack is the angle between...

- a) Chord line and tip path plane.
- b) Effective airflow and chord line.
- c) Tip path plane and rotor blade.
- d) Effective airflow and tip path plane.

39. 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.

40. Given: QDR: 152° VAR: 5° W DEV: 5° E The QUJ equals...

- a) 317°
- b) 327°.
- c) 147°.
- d) 332°.

41. With respect to aircraft accident and incident investigation, what are the three categories regarding aircraft occurrences?

- a) Incident Serious incident Accident
- b) Event Serious event Accident
- c) Happening Event Serious event
- d) Event Crash Disaster

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42. What is the approximate speed of electromagnetic wave propagation?

- a) 123000 m/s
- b) 300000 m/s
- c) 123000 km/s
- d) 300000 km/s

43. 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.

44. In case of an emergency ditching, the life vests have to be inflated...

- 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.

45. An aerodrome beacon (ABN) is a...

- a) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.
- b) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground.
- c) Rotating beacon installed at the beginning of the final approach to indicate its location to aircraft pilots from the air
- d) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.

46. What must be considered for cross-border flights?

- a) Regular location messages
- b) Approved exceptions
- c) Transmission of hazard reports
- d) Requires flight plans

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47. 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.

48. 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

49. What does a readability of 1 indicate?

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

50. Given: True course: 270°. TAS: 100 kt. Wind: 090°/25 kt. Distance: 100 NM. The ground speed (GS) equals...

- a) 120 kt.
- b) 117 kt.
- c) 131 kt.
- d) 125 kt.

51. Piston engines of helicopters have...

- a) One magneto ignition system.
- b) Two independent ignition systems.
- c) Two coupled ignition systems.
- d) One electrical ignition system.

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52. During an autorotation the airspeed is limited by...

- a) The displacement of the stall regions in the inner area of the rotor blade.
- b) The interference drag during low rates of descent.
- c) The landing gear during the touchdown.
- d) The drift of the driving forces on the returning blade.

53. The term "static pressure" is defined as pressure...

- a) Sensed by the pitot tube.
- b) Resulting from orderly flow of air particles.
- c) Of undisturbed airflow.
- d) Inside the airplane cabin.

54. 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

55. The term 'magnetic course' (MC) is defined as...

- a) The direction from an arbitrary point on Earth to the magnetic 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 geographic North Pole.

56. What is the risk arising in a vertical autorotation with a subsequent increase in airspeed prior to the landing?

- a) High rotor RPM
- b) Vortex ring state
- c) Loss of the tail rotor efficiency
- d) Misjudgement when increasing the airspeed

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57. What is the percentage of nitrogen in the atmosphere?

- a) 78 %
- b) 21 %
- c) 0.1 %
- d) 1 %

58. The saturated adiabatic lapse rate is...

- 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.

59. 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.

60. Which movement is caused by the Coriolis effect on the advancing rotor blade?

- a) Mass movement outwards
- b) Drag movement forwards
- c) Tilt movement backwards
- d) Flapping downwards

61. Winds blowing downhill are defined as...

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

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62. An inversion layer close to the ground can be caused by...

- a) Ground cooling during the night.
- b) Thickening of clouds in medium layers.
- c) Intensifying and gusting winds.
- d) Large-scale lifting of air.

63. Given: WCA: -012°; TH: 125°; MC: 139°; DEV: 002°E What are: TC, MH und CH? (2,00 P.)

- a) TC: 137°. MH: 139°. CH: 125°.
- b) TC: 137°. MH: 127°. CH: 125°.
- c) TC: 113°. MH: 139°. CH: 129°.
- d) TC: 113°. MH: 127°. CH: 129°.

64. What is the function of the white blood cells (leucocytes)?

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

65. What does the abbreviaton "FIR" stand for?

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

66. 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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67. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PFP-024) Siehe Anlage 10

A4604/11 NOTAMN

Q)

EDWW/QROLP/IV/NBO/W/000/095/5155N01037E004

A) EDWW

B) 1111180800 C) 1111181200

E) OVERFLYING PROHIBITED FOR ALL TRAFFIC RADIUS
3.35NM CENTERED AROUND 515436N 0103725E DUE
TO DEMOLITION OF EXPLOSIVES AT ECKERTHAL,
(25NM S BRAUNSCHWEIG NDB BRU) .

F) GND

G) 9500 FT AMSL

- a) Height 9500 ft
- b) Flight Level 95
- c) Altitude 9500 ft MSL
- d) Altitude 9500 m MSL

68. The average decrease of blood alcohol level for an adult in one hour is approximately...

- a) 0.3 percent.
- b) 0.01 percent
- c) 0.1 percent.
- d) 0.03 percent.

69. A Grey-out is the result of...

- a) Tiredness.
- b) Hypoxia
- c) Hyperventilation.
- d) Positive g-forces.

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70. 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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Response Scheme

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

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

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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: _____		