

Exam simulation

PPL(H) - Private Pilot License - Air Law



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STUDENT NAME:

DATE AND TIME:

01. What information is broadcasted on a VOLMET frequency?

- a) NOTAMS
- b) Current information
- c) Navigational information
- d) Meteorological information

02. 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

03. The validity period of a helicopter type rating is...

- a) 10 years.
- b) 1 year.
- c) 2 years.
- d) 5 years.

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

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

05. The term QTE means...

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

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06. What is the task of cooling fins on air-cooled engine cylinders?

- a) Quick heat transfer to the surrounding air flow by expanding the surface
- b) Leading the airflow to parts designated to be cooled
- c) Cooling of the cylinder surrounding airflow and forwarding to hotter engine parts
- d) Increasing the airflow thus improving cooling of cylinder parts

07. Where does the inclination reach its lowest value?

- a) At the geographic poles
- b) At the geographic equator
- c) At the magnetic equator
- d) At the magnetic poles

08. What does a readability of 2 indicate?

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

09. 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

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

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11. Clouds in high layers are referred to as...

- a) Nimbo-
- b) Strato-
- c) Alto-
- d) Cirro-

12. What is an appropriate reaction when a passenger during cruise flight suddenly feels uncomfortable?

- a) Avoid conversation and choose a higher airspeed
- b) Switch on the heater blower and provide thermal blankets
- c) Give additional oxygen and avoid low load factors
- d) Adjust cabin temperature and prevent excessive bank

13. Which phrase does a pilot use when he / she wants to check the readability of his / her transmission?

- a) Request readability
- b) What is the communication like?
- c) You read me five
- d) How do you read?

14. What is necessary for the determination of speed (IAS) by the airspeed indicator?

- a) The difference between the dynamic pressure and the static pressure
- b) The difference between the total pressure and the dynamic pressure
- c) The difference between the total pressure and the static pressure
- d) The difference between the standard pressure and the total pressure

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

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

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16. An aircraft is flying at FL 75 with an outside air temperature (OAT) of -9°C. The QNH altitude is 6500 ft. The true altitude equals...

- a) 6750 ft.
- b) 6500 ft.
- c) 6250 ft.
- d) 7000 ft.

17. The term "inclination" is defined as...

- a) Angle between magnetic and true north.
- b) Deviation induced by electrical fields.
- c) Angle between airplane's longitudinal axis and true north.
- d) Angle between earth's magnetic field lines and horizontal plane.

18. 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

19. The altimeter's reference scale is set to airfield pressure (QFE). What indication is shown during the flight?

- a) Altitude above MSL
- b) Airfield elevation
- c) Pressure altitude
- d) Height above airfield

20. 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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21. What situation is called "over-development" in a weather report?

- a) Development of a thermal low to a storm depression
- b) Vertical development of Cumulus clouds to rain showers
- c) Widespread spreading of Cumulus clouds below an inversion layer
- d) Change from blue thermals to cloudy thermals during the afternoon

22. Why do helicopters with a semi-rigid rotor system react slower than others?

- a) The central flapping hinge does not transmit any moments
- b) The missing lag hinges cause a rotor imbalance
- c) The lowered attachment of the rotor blades allows a transmission of forces
- d) The angled lag hinges prevent the transmission of aerodynamic forces on the helicopter frame

23. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are the VAR and the DEV?

- a) VAR: 004° E. DEV: -002°
- b) VAR: 004° W. DEV: -002°.
- c) VAR: 004° E. DEV: +002°
- d) VAR: 004° W. DEV: +002°.

24. When transmitter and receiver are moving away from each other...

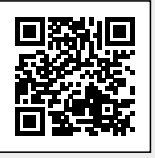
- a) The perceived frequency decreases.
- b) The perceived frequency equals the transmitted frequency
- c) The perceived frequency increases.
- d) The frequency varies, but the wavelength remains constant.

25. 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

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

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

27. 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) $\text{Kg} \times 2 = \text{lb}$.

28. 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

29. 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

30. What needs to be observed if the carburettor heat is applied in a hover?

- a) Gain of power
- b) Loss of power
- c) Reduction of pre-ignition
- d) Increase of rotor rpm

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31. What is the function of the blood platelets (thrombocytes)?

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

32. 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

33. With Central European Time (CET) given as UTC+1, what UTC time corresponds to 1700 CET?

- a) 1600 UTC
- b) 1500 UTC.
- c) 1800 UTC.
- d) 1700 UTC.

34. 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

35. What does the term "confirmation bias" mean?

- a) The feedback loop in a closed communication
- b) The preference to find arguments to prove one's own mental model
- c) The bias to confirm each radio call
- d) The critical check of ambiguous situations in flight

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36. 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

37. What is shown on the printed sign? See figure (ALW-019)



- a) Parking position A
- b) Point A on a taxiway
- c) Part A of the runway
- d) Taxiway A

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38. What is the radial from VOR Brünkendorf (BKD) (53°02'N, 011°33'E) to Pritzwalk (EDBU) (53°11'N, 12°11'E)?



- a) 204°
- b) 024°
- c) 068°
- d) 248°

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39. What is the meaning of the phrase "Roger"?

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

40. What is the purpose of the semi-circular rule?

- a) To avoid collisions by reducing the probability of opposing traffic at the same altitude
- b) To allow safe climbing or descending in a holding pattern
- c) To fly without a filed flight plan in prescribed zones published in the AIP
- d) To avoid collisions by suspending turning manoeuvres

41. Which gauges involve a measurement of temperature?

- a) Engine lubricant, exhaust gas, outside air, cabin air, directional gyro
- b) Engine lubricant, cylinder head, exhaust gas, suction, outside air, cabin air
- c) Engine lubricant, engine cooling fluid, cylinder head, exhaust gas, outside air, cabin air
- d) Engine oil, cylinder head, exhaust gas, altimeter, airspeed indicator, vertical speed indicator

42. Full deflection of the course deviation indicator (CDI) means that the aircraft is located at least...

- a) 10° beside the selected course
- b) 2° beside the selected course.
- c) 2 NM beside the selected course.
- d) 10 NM beside the selected course.

43. Which altitude is displayed on the altimeter when set to a specific QNH?

- a) Altitude in relation to mean sea level
- b) Altitude in relation to the air pressure at the reference airfield
- c) Altitude in relation to the 1013.25 hPa datum
- d) Altitude in relation to the highest elevation within 10 km

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44. What weather conditions can be expected in high pressure areas during summer?

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

45. What phrase is used by a pilot if a transmission is to be answered with "no"?

- a) Finish
- b) No
- c) Not
- d) Negative

46. The term 'agonic line' is defined as a line on Earth or an aeronautical chart, connecting all points with the...

- a) Heading of 0°
- b) Inclination of 0°
- c) Variation of 0°
- d) Deviation of 0°

47. The "spread" is defined as...

- a) Relation of actual to maximum possible humidity of air
- b) Difference between dew point and condensation point
- c) Maximum amount of water vapour that can be contained in air
- d) Difference between actual temperature and dew point

48. Given: QDM: 138° VAR: 10° E The QUJ equals...

- a) 148°
- b) 328°
- c) 168°
- d) 318°

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49. The mast bearing on the upper gearbox output acts against...

- a) Torsions.
- b) Torques.
- c) Traction and bending forces.
- d) Contact pressure.

50. Given the following information, what is the true altitude? (rounded to the nearest 50 ft) QNH: 983 hPa Altitude: FL 85 Outside Air Temperature: ISA - 10°

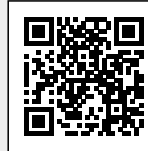
- a) 7600 ft
- b) 7300 ft
- c) 7900 ft
- d) 9400 ft

51. 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 $\pm 10^\circ$.
- 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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52. The position of the center of gravity equals... See figure (PFP-052e)

ITEM	MASS	ARM
Basic Empty Mass	3.156 lb	135,33 in
Front Seats	320 lb	135,50 in
Rear Seats	340 lb	177,00 in
Baggage	80 lb	248,23 in
Fuel	321,5 lb	150,31 in

- a) 142 in.
- b) 137.5 in.
- c) 147.5 in.
- d) 145.7 in.

53. The altimeter is switched from local QNH to 1013.25 hPa...

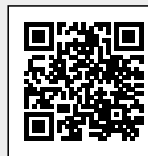
- a) When descending below FL 100.
- b) At the decision height.
- c) At 4000 ft.
- d) When climbing above the transition altitude.

54. Which dangerous attitudes are often combined?

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

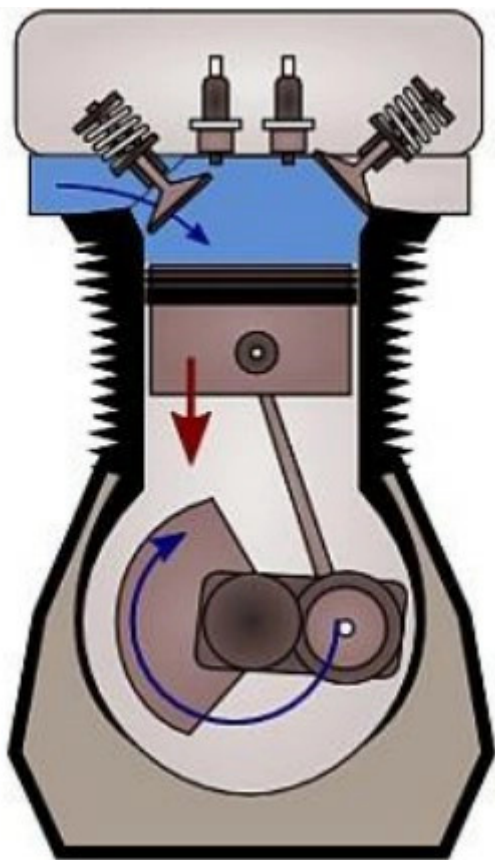
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55. Which part of the cycle of a four-stroke Otto engine can be seen in the attachment? See figure (AGK-007)



- a) First stroke - induction
- b) Second stroke - compression
- c) Fourth stroke - exhaust
- d) Third stroke - power

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

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

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57. 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

58. A pilot receives a QDR of 315° from the VDF ground station. Where is the aircraft located in relation to the ground station?

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

59. The center of gravity has to be located...

- a) Behind the rear C.G. limit.
- b) Right of the lateral C. G. limit.
- c) Between the front and the rear C.G. limit.
- d) In front of the front C.G. limit.

60. Wake turbulences develop during take-off just as the aeroplane...

- a) Reaches an altitude of 15 ft.
- b) Lifts off with the main gear.
- c) Accelerates.
- d) Lifts off with the front gear.

61. 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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62. 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.

63. Which statement is correct with regard to the term "taxi holding point"?

- a) A taxi holding point is an area where the aircraft must stop unless further permission to proceed is given
- b) A taxi holding point is only to be observed for IFR traffic if instrument weather conditions are prevailing
- c) A taxi holding point is the point at which the aircraft must stop unless further permission to proceed is given
- d) A taxi holding point is designed to indicate the beginning of the safety area and may be crossed when a taxi clearance is given

64. 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

65. 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

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

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

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

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

68. 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

69. 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

70. 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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Response Scheme

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

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