

Exam simulation

PPL(H) - Private Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

01. The pitch angle of a tail rotor blade is changed...

- a) Cyclically
- b) Collectively
- c) Symmetrically
- d) Asymmetrically

02. The total weight of an aeroplane is acting vertically through the...

- a) Center of gravity.
- b) Center of pressure.
- c) Neutral point.
- d) Stagnation point.

03. 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

04. A precautionary landing is a landing...

- a) Conducted in response to circumstances forcing the aircraft to land.
- b) Conducted with the flaps retracted.
- c) Conducted in an attempt to sustain flight safety.
- d) Conducted without power from the engine.

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

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

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06. A horizontal situation indicator (HSI) combines the information provided by...

- a) The attitude indicator and the flight director.
- b) The rate gyro and the slip indicator.
- c) The directional gyro and the flight director.
- d) The directional gyro and the VHF navigation receiver.

07. 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

08. What is a tubular steel construction with a non self-supporting skin called?

- a) Grid construction
- b) Honeycomb structure
- c) Monocoque construction
- d) Semi-monocoque construction

09. What is the reason for retreating blade stall?

- a) Large centrifugal forces of the peripheral speed
- b) Small cone angle and constant peripheral speed
- c) Large pitch angle and small effective airflow
- d) Small pitch angle and large effective airflow

10. For a given fuel load, if the helicopter mass is increased...

- a) The normal fuel burn will be increased.
- b) The power required will be unchanged.
- c) The maximum range will be decreased.
- d) The parasite drag will be unchanged.

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11. 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

12. The rotor thrust is...

- a) Perpendicular to the tip path plane
- b) Opposite to the rotation of the rotor blade element
- c) Parallel with the main rotor shaft
- d) Perpendicular to the hub plane

13. 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

14. Cold air inflow in high tropospheric layers may result in...

- a) Stabilisation and calm weather.
- b) Frontal weather.
- c) Calm weather and cloud dissipation.
- d) Showers and thunderstorms.

15. The center of gravity (CG) defines...

- a) The point on the longitudinal axis or its extension from which the centers of gravity of all masses are referenced.
- b) The point through which the force of gravity is said to act on a mass.
- c) The distance from the datum to the position of a mass.
- d) The product of mass and balance arm.

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16. A landing conducted in response to circumstances forcing the aircraft to land is a / an...

- a) Urgent landing.
- b) Precautionary landing.
- c) Field or out landing.
- d) Emergency landing.

17. 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

18. Why are the stability criteria of a helicopter very important?

- a) Low stability reduces the available control forces
- b) High stability prevents low load factors
- c) A lack of stability may lead to loss of control
- d) Large stability increases the maximum take-off mass

19. 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

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

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

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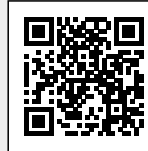


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21. What is the distance from Neustadt (EDAN) (53°22'N, 011°37'E) to Uelzen (EDVU) (52°59'N, 10°28'E)?



- a) 78 NM
- b) 46 NM
- c) 46 km
- d) 78 km



22. When landing, if the TAS is significantly less than the ground speed, you will have...

- a) Headwind.
- b) Crosswind.
- c) An inversion.
- d) Tailwind.

23. 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

24. 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

25. 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

26. 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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27. 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

28. What happens during oil filter clogging?

- 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

29. During a flight in colder-than-ISA air the indicated altitude is...

- a) Lower than the true altitude
- b) Higher than the true altitude
- c) Equal to the true altitude
- d) Equal to the standard altitude

30. During an approach the aeroplane experiences a windshear with a decreasing tailwind. If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change?

- a) Path is lower, IAS increases
- b) Path is higher, IAS decreases
- c) Path is lower, IAS decreases
- d) Path is higher, IAS increases

31. 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

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32. Which is the colour of runway edge lights?

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

33. How do you call fuel mixtures with a high amount of fuel?

- a) Rich
- b) Empty
- c) Full
- d) Lean

34. (For this question, please use annex PFP-063) According to ICAO, what symbol indicates a general spot elevation?

- A 300
- B (300)
- C • 1737
- D • 1737

PFP-063

- a) C
- b) A
- c) B
- d) D

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35. Considering the following fuel data, how much trip fuel is required? Fuel for start-up and taxi: 5 L Fuel for take-off and climb: 12 L Fuel for cruise flight: 25 L Fuel for descent, approach and landing: 7 L Fuel for taxi and parking: 3 L Fuel to alternate: 13 L Final reserve fuel: 10 L

- a) 75 L
- b) 49 L
- c) 44 L
- d) 52 L

36. 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

37. What action has no effect on the rotor RPM in an autorotation?

- a) Utilisation of friction brake
- b) Centre of gravity displacement
- c) Pitch angle change
- d) Transition into a turning flight

38. Complacency is a risk due to...

- a) The high number of mistakes normally made by humans.
- b) The high error rate of technical systems.
- c) Increased cockpit automation.
- d) Better training options for young pilots

39. Which danger exists during engine start?

- a) Sparking
- b) Cable fire
- c) Smoke emission
- d) Carburettor fire

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40. The formation of medium to large precipitation particles requires...

- a) Strong wind
- b) A high cloud base
- c) Strong updrafts
- d) An inversion layer

41. Which is the colour of runway end lights?

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

42. What chart shows areas of precipitation?

- a) Radar picture
- b) Satellite picture
- c) GAFOR
- d) Wind chart

43. An aircraft is following a true course (TC) of 040° at a constant true airspeed (TAS) of 180 kt. The wind vector is $350^\circ/30$ kt. The groundspeed (GS) equals...

- a) 172 kt
- b) 155 kt
- c) 168 kt
- d) 159 kt

44. What force affects the braking torque of the rotor in cruise?

- a) Inclined forward lift
- b) Upward directional rotor thrust
- c) Inclined forward drag force
- d) Inclined rearward tangential force

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45. Given the following information, what is the aircraft position at the cross bearing? VOR Hamburg (HAM) (53°41'N, 010°12'E): Radial 119° VOR Brünkendorf (BKD) (53°02'N, 011°33'E): Radial 320°



- a) 53°20'N, 11°10'E
- b) 52°20'N, 10°10'E
- c) 52°10'N, 10°20'E
- d) 54°40'N, 12°50'E

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46. During a flight at FL 80, the altimeter setting has to be...

- a) Local QFE.
- b) 1013.25 hPa.
- c) Local QNH.
- d) 1030.25 hPa.

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

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

48. A pilot license issued in accordance with ICAO Annex 1 is valid in...

- a) All ICAO countries.
- b) The country where the license was acquired.
- c) Those countries that have accepted this license on application.
- d) The country where the license was issued.

49. 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

50. What is the ISA standard pressure at FL 180 (5500 m)?

- a) 250 hPa
- b) 300 hPa
- c) 500 hPa
- d) 1013.25 hPa

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51. The rotor brake should be engaged (provided that no other procedure is described in the flight manual)...

- a) During all prescribed pre-flight checks on the ground.
- b) For inside parking.
- c) For outside parking.
- d) During start-up until reaching the prescribed rotor rpm.

52. Which transponder code indicates a radio failure?

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

53. 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

54. 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.

55. What are the air masses that Central Europe is mainly influenced by?

- a) Polar cold air and tropical warm air
- b) Arctic and polar cold air
- c) Tropical and arctic cold air
- d) Equatorial and tropical warm air

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56. What is a cause for the dip error on the direct-reading compass?

- a) Temperature variations
- b) Deviation in the cockpit
- c) Acceleration of the airplane
- d) Inclination of earth's magnetic field lines

57. What cylinder arrangement is common in helicopters with piston engines?

- a) Boxer engine
- b) Radial engine
- c) Line engine
- d) V-type engine

58. (For this question, please use annex PFP-062) According to ICAO, what symbol indicates a civil airport (not international airport) with paved runway?



PFP-062

- a) B
- b) C
- c) D
- d) A

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59. 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.

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

- a) A decrease of the required control forces
- b) A relief of the pilot in command
- c) An enhancement of control under all load factors
- d) An optimization of the maximum helicopter mass

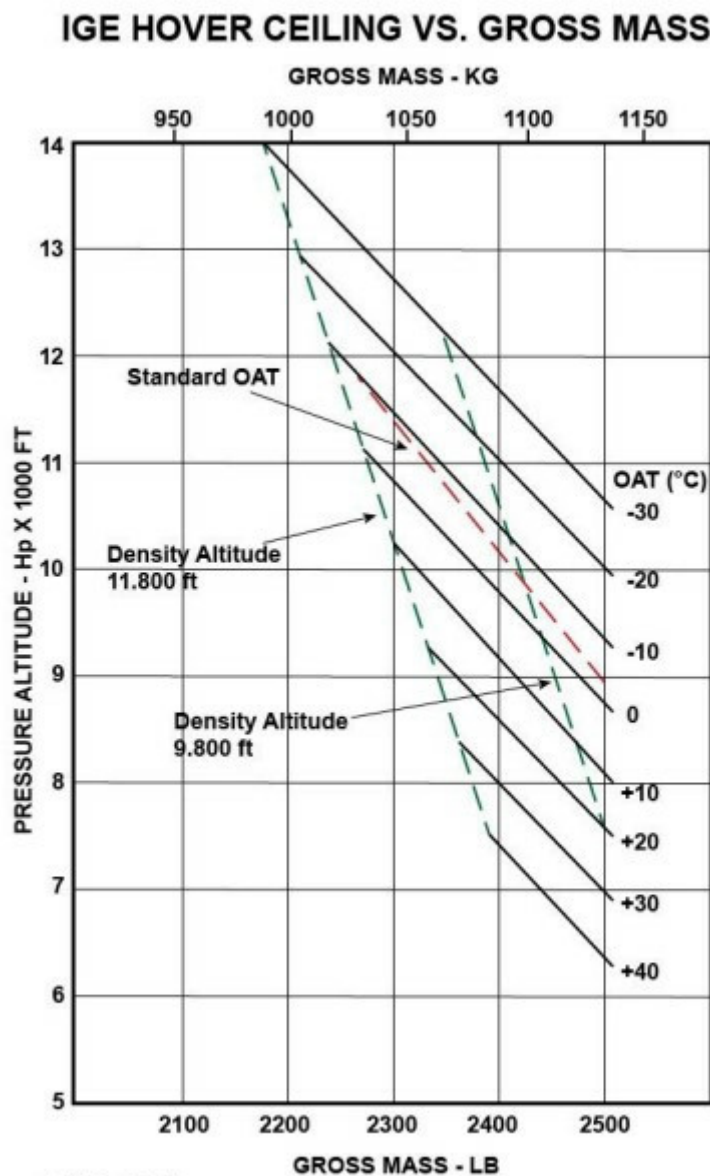
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61. What is the maximum pressure altitude to conduct a hover in ground effect if the helicopter mass equals 2400 lbs and the outside air temperature is +20° C? See annex (PFP-045)



PFP-045

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

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62. 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

63. During a flight in an air mass with a temperature equal to ISA and the QNH set correctly, the indicated altitude is...

- a) Equal to the true altitude.
- b) Lower than the true altitude.
- c) Higher than the true altitude.
- d) Equal to the standard atmosphere.

64. What ground features should preferably be used for orientation during visual flight?

- a) Rivers, railroads, highways
- b) Farm tracks and creeks
- c) Border lines
- d) Transmission lines and small hills

65. 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°

66. What does "WATER PATCHES" mean regarding the reported runway condition?

- a) The runway is clear of water, ice, and snow
- b) Patches of standing water are visible
- c) A large part of the surface is flooded
- d) Wet surface, but no significant patches are visible

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67. What is the correct term for an involuntary and stereotypical reaction of an organism to the stimulation of a receptor?

- a) Reflex
- b) Coherence
- c) Virulence
- d) Reduction

68. Which of the following conditions are most favourable for ice accretion?

- a) Temperatures between 0° C and -12° C, presence of supercooled water droplets (clouds)
- b) Temperatures below 0° C, strong wind, sky clear of clouds
- c) Temperatures between -20° C and -40° C, presence of ice crystals (Ci clouds)
- d) Temperatures between +10° C and -30° C, presence of hail (clouds)

69. Which are the different parts of the Aeronautical Information Publication (AIP)?

- a) GEN COM MET
- b) GEN AGA COM
- c) GEN ENR AD
- d) GEN MET RAC

70. Which of the following options has an effect on the autorotation characteristics?

- a) Smoothly working tail rotor control and low RPM warning systems
- b) Air temperature and wind speed
- c) Pressure altitude and wind speed
- d) Helicopter mass and density altitude



Response Scheme

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

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

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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: _____		