

Exam simulation

PPL(H) - Private Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

01. Which Q-code is used for the magnetic bearing from the station?

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

02. 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

03. 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

04. Why does a stall begin on the retreating rotor blade at high cruise speeds?

- a) The airflow reaches subsonic speed and causes an increase of the induced drag
- b) The small pitch angle and a relatively low peripheral speed cause a small effective angle of attack
- c) The large pitch angle and relatively low peripheral speed cause a large effective angle of attack
- d) The airflow reaches supersonic speed and causes an increase of the parasite drag

05. Above the friction layer, with a prevailing pressure gradient, the wind direction is...

- a) Perpendicular to the isobars.
- b) Perpendicular to the isohypses.
- c) At an angle of 30° to the isobars towards low pressure.
- d) Parallel to the isobars.

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06. Wake turbulence is particularly strong...

- a) When flying with high thrust.
- b) At a high aeroplane weight.
- c) At a low aeroplane weight.
- d) When flying with low thrust.

07. Regarding the communication model, how can the use of the same code during radio communication be ensured?

- a) By a particular frequency allocation
- b) By the use of radio phraseology
- c) By using radios certified for aviation use only
- d) By the use of proper headsets

08. 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.

09. 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.

10. 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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11. When do you expect wind shear?

- a) When passing a warm front
- b) During a summer day with calm winds
- c) During an inversion
- d) In calm wind in cold weather

12. When preparing to carry out the weighing procedure on an aircraft, which of the following is required?

- a) Remove the batteries
- b) Remove service equipment
- c) Drain all engine tank oil
- d) Drain all useable fuel

13. 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

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

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

15. What is the correct designation of the frequency band from 118.000 to 136.975 MHz used for voice communication?

- a) HF
- b) LF
- c) MF
- d) VHF

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16. Which danger exists during engine start?

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

17. 1000 ft equal...

- a) 30 km.
- b) 30 m.
- c) 3000 m.
- d) 300 m.

18. 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

19. The term "aerodrome elevation" is defined as...

- a) The highest point of the landing area.
- b) The lowest point of the landing area.
- c) The average value of the height of the manoeuvring area.
- d) The highest point of the apron.

20. Which phrase is to be used when a pilot wants the tower to know that he is ready for take-off?

- a) Ready for departure
- b) Ready
- c) Ready for start-up
- d) Request take-off

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21. In flight, a little smoke emerges from behind the instrument panel. An engine fire is suspected. Which action, with respect to the pilot's operating manual, should be taken?

- a) Turn off the master switch
- b) Turn off the heat
- c) Shut down the engine
- d) Use the fire extinguisher

22. Which cockpit instruments are connected to the static port?

- a) Airspeed indicator, direct-reading compass, slip indicator
- b) Altimeter, slip indicator, navigational computer
- c) Airspeed indicator, altimeter, direct-reading compass
- d) Altimeter, vertical speed indicator, airspeed indicator

23. The balance arm is the horizontal distance between...

- a) The C.G. of a mass and the datum line.
- b) The C.G. of a mass and the rear C.G. limit.
- c) The front C.G. limit and the datum line.
- d) The front C.G. limit and the rear C.G. limit.

24. How may windshear be recognised in flight?

- a) Sudden and apparently baseless change of oilpressure, oil temperature, engine speed and altitude.
- b) Sudden and apparently baseless change in altitude, airspeed, rate of climb or descent.
- c) Sudden and apparently baseless change in heading, turning rate, engine speed or oil temperature.
- d) Rather unexpected onset of drizzle associated with high stratus clouds following previously clear skies and calm conditions.

25. What is the call sign of the surface movement control?

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

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26. Under what conditions may class D airspace be entered with a radio failure?

- a) There are other aircraft in the aerodrome circuit
- b) It is the destination aerodrome
- c) Approval has been granted before
- d) It is the aerodrome of departure

27. 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)

28. The distance from 'A' to 'B' measures 120 NM. At a distance of 55 NM from 'A' the pilot realizes a deviation of 7 NM to the right. What approximate course change must be made to reach 'B' directly?

- a) 15° left
- b) 6° left
- c) 14° left
- d) 8° left

29. Given: True course from A to B: 250°. Ground distance: 210 NM. TAS: 130 kt. Headwind component: 15 kt. Estimated time of departure (ETD): 0915 UTC. The estimated time of arrival (ETA) is...

- a) 1005 UTC.
- b) 1105 UTC.
- c) 1052 UTC.
- d) 1115 UTC.

30. 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

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31. Given: QTE: 248° VAR: 10° W The QDR equals...

- a) 078°
- b) 258°
- c) 238°
- d) 068°

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. What is the usual direction of movement of a polar front low?

- a) To the northeast during winter, to the southeast during summer
- b) Parallel to the warm-sector isobars
- c) To the northwest during winter, to the southwest during summer
- d) Parallel to the warm front line to the south

34. Weather and operational information about the destination aerodrome can be obtained during the flight by...

- a) VOLMET
- b) SIGMET.
- c) ATIS.
- d) PIREP.

35. 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



36. 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

37. During an approach the aeroplane experiences a windshear with a decreasing headwind. 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 increases
- c) Path is higher, IAS decreases
- d) Path is lower, IAS decreases

38. 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

39. In which way may an altimeter subscale which is set to an incorrect QNH lead to an incorrect altimeter reading?

- a) If the subscale is set to a higher than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- b) If the subscale is set to a lower than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- c) If the subscale is set to a lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended
- d) If the subscale is set to a higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended

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40. An aircraft is flying with a true airspeed (TAS) of 180 kt and a headwind component of 25 kt for 2 hours and 25 minutes. The distance flown equals...

- a) 375 NM.
- b) 202 NM.
- c) 435 NM.
- d) 693 NM.

41. Where are the two polar circles?

- a) At a latitude of 20.5°S and 20.5°N
- b) 23.5° north and south of the poles
- c) 20.5° south of the poles
- d) 23.5° north and south of the equator

42. What does a cloud coverage of "FEW" mean in a METAR weather report?

- a) 8 eighths
- b) 1 to 2 eighths
- c) 3 to 4 eighths
- d) 5 to 7 eighths

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

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

44. A Pre-Flight Information Bulletin (PIB) is a presentation of current...

- a) ICAO information of operational significance prepared after the flight.
- b) NOTAM information of operational significance prepared prior to flight.
- c) AIC information of operational significance prepared after the flight.
- d) AIP information of operational significance prepared prior to flight.

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45. How many satellites are necessary for a precise and verified three-dimensional determination of the position?

- a) Five
- b) Four
- c) Three
- d) Two

46. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL125?

- a) 5000 m
- b) 8000 m
- c) 3000 m
- d) 1500 m

47. 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.

48. A pilot wants to approach an NDB on QDM 090°. The aircraft flies for about 5 minutes with a magnetic heading (MH) of 095° and the RBI indication of 355°. After 6 minutes the RBI indicates 358°. Which statement is correct?

- a) The crosswind component decreased; the pilot has to increase the MH
- b) The crosswind component increased; the pilot has to increase the MH
- c) The crosswind component increased; the pilot has to decrease the MH
- d) The crosswind component decreased; the pilot has to decrease the MH

49. What is the name of the cold, katabatic wind phenomena blowing from northeast into the Adriatic Sea?

- a) Scirocco
- b) Mistral
- c) Passat
- d) Bora

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



- a) 24 km
- b) 42 NM
- c) 24 NM
- d) 42 km

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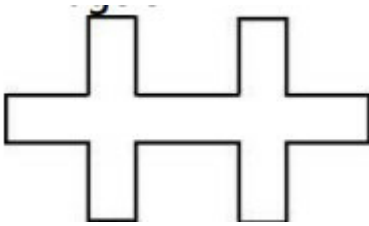


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51. During an approach the aeroplane experiences a windshear with an increasing headwind. If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change?

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

52. What is the meaning of this sign at an aerodrome? See figure (ALW-011)



- a) Glider flying is in progress
- b) Landing prohibited for a longer period
- c) After take-off and before landing all turns have to be made to the right
- d) Caution, manoeuvring area is poor

53. What is the correct frequency for an initial distress message?

- a) Current frequency
- b) FIS frequency
- c) Emergency frequency
- d) Radar frequency

54. What cloud sequence can typically be observed during the passage of a warm front?

- a) Squall line with showers of rain and thunderstorms (Cb), gusting wind followed by cumulus clouds with isolated showers of rain
- b) Wind becoming calm, dissipation of clouds and warming during summer; formation of extended high fog layers during winter
- c) Cirrus, thickening altostratus and altocumulus clouds, lowering cloud base with rain, nimbostratus
- d) In coastal areas during daytime wind from the coast and forming of cumulus clouds, dissipation of clouds during evening and night

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55. Which phrase is to be repeated three times before transmitting an urgency message?

- a) Help
- b) Urgent
- c) Mayday
- d) Pan Pan

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

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

57. 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.

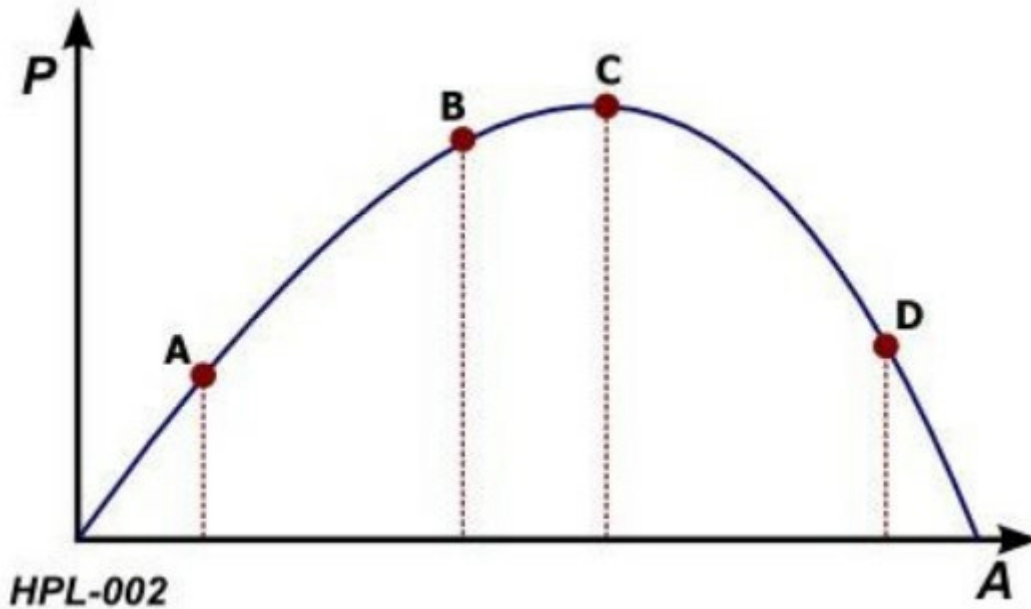
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58. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance
A = Arousal / Stress



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

59. 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° .

60. 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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61. 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

62. The barometric altimeter with QNH setting indicates...

- a) True altitude above MSL.
- b) Height above the pressure level at airfield elevation.
- c) Height above standard pressure 1013.25 hPa.
- d) Height above MSL.

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

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

64. 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.

65. Which part of the visual system is responsible for colour vision?

- a) Cones
- b) Rods
- c) Macula
- d) Blind spot

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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

67. 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.

68. What does the reported runway condition "DAMP" mean?

- a) A large part of the surface is flooded
- b) The runway is clear of water, ice, and snow
- c) Change of colour on the surface due to moisture
- d) Wet surface, but no significant puddles are visible

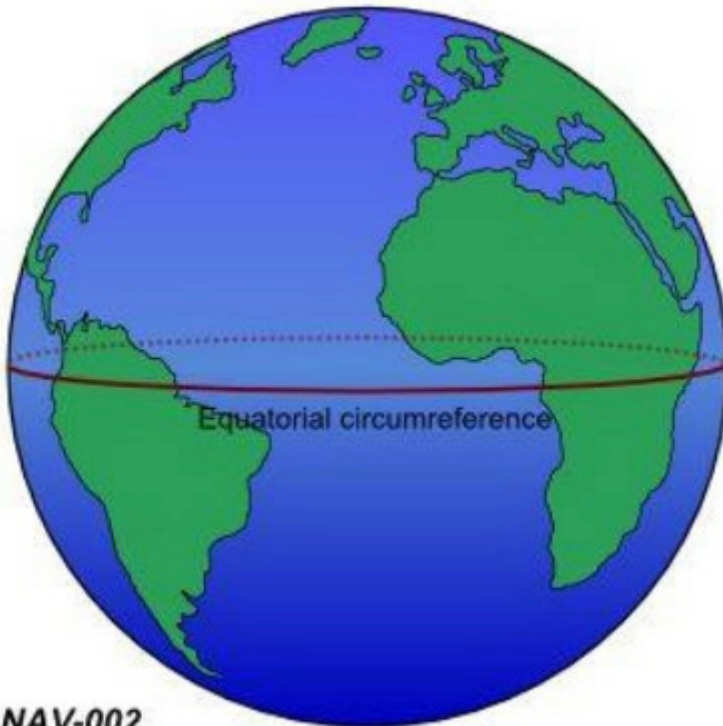
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69. The circumference of the Earth at the equator is approximately... See figure (NAV-002)



- a) 10800 km.
- b) 40000 NM.
- c) 12800 km.
- d) 21600 NM.

70. What weather conditions may be expected during conditionally unstable conditions?

- a) Layered clouds up to high levels, prolonged rain or snow
- b) Towering cumulus, isolated showers of rain or thunderstorms
- c) Sky clear of clouds, sunshine, low winds
- d) Shallow cumulus clouds with base at medium levels



Response Scheme

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

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