

Exam simulation

PPL(H) - Private Pilot License - Communication



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STUDENT NAME:

DATE AND TIME:

01. 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

02. Which of the following symptoms may indicate hypoxia?

- a) Blue discolouration of lips and fingernails
- b) Muscle cramps in the upper body area
- c) Blue marks all over the body
- d) Joint pain in knees and feet

03. What has to be done before entering a TMZ?

- a) Switch on the transponder, activate mode A, and squawk "IDENT"
- b) Switch on the transponder and activate mode A and C or mode S
- c) File a flight plan before the flight
- d) Request a clearance before entering

04. The primer is...

- a) A nozzle in the Venturi tube of a carburettor for atomising the fuel.
- b) A mechanical switch in the cockpit to engage the turbocharger.
- c) A valve in the fuel control system for automatic mixture regulation.
- d) An auxiliary pump in the fuel system to facilitate engine starting.

05. Using primary ground radar, the direction of the aeroplane in relation to the antenna is determined by...

- a) The orientation of the antenna.
- b) The frequency shift of the received pulse.
- c) Time measurement.
- d) The pulse pair interval.

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06. The reason for a stall at a given pitch angle can be...

- a) Constant peripheral speed and great vertical airflow through the rotor.
- b) Smaller vertical airflow through the rotor and constant peripheral speed.
- c) Smaller effective angle of attack and small peripheral speed.
- d) Smaller frontal resistance and turbulent airflow.

07. 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

08. 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

09. 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

10. What is the most likely reason for the starter not turning when activated?

- a) The magnetos are defect
- b) The ignition is short-circuited
- c) The rotor break is engaged
- d) The alternator is defect

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

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

12. 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.

13. (For this question, please use annex PFP-062) According ICAO, what symbol indicates a civil airport (not international airport) with paved runway? (2,00 P.) Siehe Anlage 17



PFP-062

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

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14. Which transponder code should be set during a radio failure without any request?

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

15. If there is any doubt about ambiguity, a time of 1620 is to be transmitted as...

- a) One six two zero.
- b) One thousand six hundred two zero.
- c) Two zero.
- d) Sixteen twenty.

16. Which dangerous attitudes are often combined?

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

17. Moderate to severe turbulence has to be expected...

- a) Below thick cloud layers on the windward side of a mountain range.
- b) Overhead unbroken cloud layers.
- c) With the appearance of extended low stratus clouds (high fog)
- d) On the lee side of a mountain range when rotor clouds are present.

18. Vienna (LOWW) is located at 016° 34'E, Salzburg (LOWS) at 013° 00'E. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between Wien and Salzburg? (2,00 P.)

- a) In Vienna the sunrise and sunset are about 14 minutes earlier than in Salzburg
- b) In Vienna the sunrise is 4 minutes later and sunset is 4 minutes earlier than in Salzburg
- c) In Vienna the sunrise and sunset are about 4 minutes later than in Salzburg
- d) In Vienna the sunrise is 14 minutes earlier and sunset is 14 minutes later than in Salzburg

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

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

20. The directional information "12 o'clock" is correctly transmitted as...

- a) Twelve o'clock
- b) One two o'clock
- c) One two hundred
- d) One two.

21. 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

22. 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.

23. The DME reading is a...

- a) Slant range.
- b) Radial distance.
- c) Air range.
- d) Ground distance.

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24. In which situation is it NOT possible to achieve a pressure compensation between the middle ear and the environment?

- a) The eustachien tube is blocked
- b) All windows are completely closed
- c) Breathing takes place using the mouth only
- d) During a light and slow climb

25. 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

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

27. What frontal line divides subtropical air from polar cold air, in particular across Central Europe?

- a) Polar front
- b) Occlusion
- c) Warm front
- d) Cold front

28. The altimeter can be checked on the ground by setting...

- a) QNE and checking that the indication shows zero on the ground.
- b) QFF and comparing the indication with the airfield elevation.
- c) QNH and comparing the indication with the airfield elevation.
- d) QFE and comparing the indication with the airfield elevation.

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

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

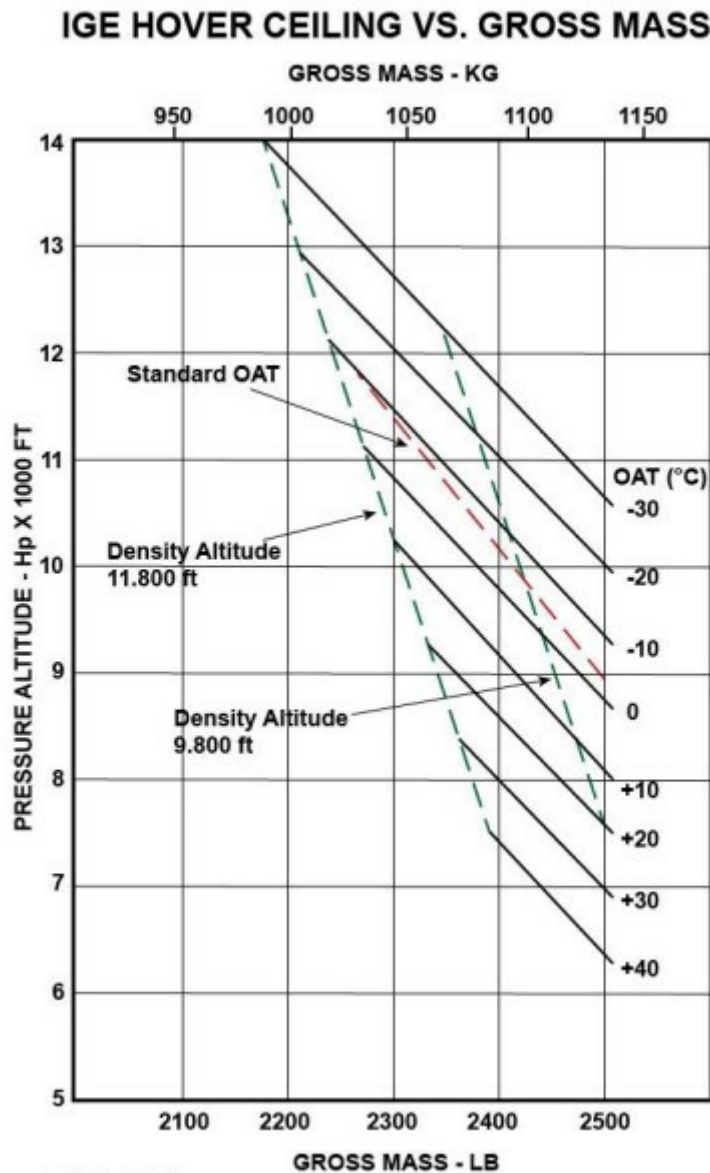
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30. What is the maximum pressure altitude to conduct a hover in ground effect if the helicopter mass equals 2400 lbs and the outside air temperature is +20° C? See annex (PFP-045) Siehe Anlage 13



PFP-045

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

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31. In which situations should a pilot use blind transmissions?

- a) When the traffic situation at an airport allows the transmission of information which does not need to be acknowledged by the ground station
- b) When a pilot has flown into cloud or fog unintentionally and therefore would like to request navigational assistance from a ground unit
- c) When no radio communication can be established with the appropriate aeronautical station, but when evidence exists that transmissions are received at that ground unit
- d) When a transmission containing important navigational or technical information is to be sent to several stations at the same time

32. 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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33. Where is the aircraft located in relation to the VOR? See annex (NAV-022) Siehe Anlage 5



NAV-022

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

34. The induced airflow on the rotor of a helicopter in level flight has the greatest value at the...

- a) Rear rotor area.
- b) Advancing rotor blade.
- c) Retreating rotor blade.
- d) Front rotor area.

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35. What is the advantage of a pushing tail rotor over a pulling tail rotor?

- a) Gain of thrust by Coanda and Magnus effect due to the airflow around the tail boom
- b) Effective airflow of tail rotor blades by using the downwash
- c) Less thrust loss by free outflow of the accelerated air mass
- d) Self-compensating anti-torque operation by using the downwash

36. Which of the instruments listed below obtain their readings through pressure measurement?

- a) Oil pressure gauge, fuel pressure gauge, manifold pressure gauge, altimeter, vertical speed indicator, airspeed indicator, suction gauge
- b) Oil pressure gauge, fuel pressure gauge, fuel quantity gauge, manifold pressure gauge, differential pressure gauge, altimeter
- c) Airspeed indicator, vertical speed indicator, altimeter, directional gyro, turn and bank coordinator, oil pressure gauge, fuel pressure gauge
- d) Airspeed indicator, vertical speed indicator, altimeter, magnetic compass, oil pressure gauge, fuel pressure gauge

37. 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

38. Non-directional beacons (NDBs) transmit within which frequency band?

- a) Low frequency (LF) and medium frequency (MF)
- b) Very high frequency (VHF)
- c) Very low frequency (VLF) and low frequency (LF)
- d) High frequency (HF)

39. What does a cloud coverage of "BKN" mean in a METAR weather report?

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

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

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

41. 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.

42. The barometric altimeter indicates height above...

- a) Mean sea level.
- b) Standard pressure 1013.25 hPa.
- c) Ground.
- d) A selected reference pressure level.

43. What is the advantage of a hingeless rotor?

- a) Good autorotation characteristics
- b) Few components are necessary
- c) Excellent blade tracking
- d) Better lift distribution

44. 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

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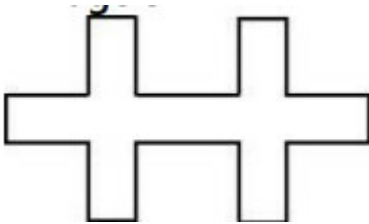


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45. After lift-off, a much stronger than expected airspeed rise is experienced during the initial climb phase. What may be expected if the aeroplane entered a microburst?

- 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

46. What is the meaning of this sign at an aerodrome? See figure (ALW-011) Siehe Anlage 3



- 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

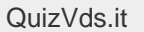
47. What should be the first action in case of a cable fire during a flight?

- a) Open the windows
- b) Turn off the master switch
- c) Close the fuel valve
- d) Open cabin ventilation

48. The term 'civil twilight' is defined as...

- a) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the true horizon.
- b) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the apparent horizon.
- c) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the true horizon.
- d) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the apparent horizon.

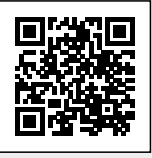
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51. Which altitude marks the lower limit where the the body is unable to completely compensate the effects of the low atmospheric pressure?

- a) 12000 feet
- b) 7000 feet
- c) 5000 feet
- d) 22000 feet

52. What has to be considered when starting the engine in a strong wind condition?

- a) The rotor brake should not be released before the engine runs with sufficient RPM.
- b) The cyclic stick should be taken backwards and the collective pitch should be raised.
- c) The mixture should be leaned and the carburettor heat fully pulled.
- d) The helicopter should be aligned with its longitudinal axis in the wind.

53. Which force causes "wind"?

- a) Pressure gradient force
- b) Thermal force
- c) Coriolis force
- d) Centrifugal force

54. 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) Two hundred eight five.

55. A flight level is a...

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

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56. 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.

57. What is the best combination of traits with respect to the individual attitude and behaviour for a pilot?

- a) Extroverted - stable
- b) Introverted - unstable
- c) Extroverted - unstable
- d) Introverted - stable

58. The connection between middle ear and nose and throat region is called...

- a) Eardrum
- b) Eustachian tube.
- c) Inner ear.
- d) Cochlea.

59. What process results in the formation of "advection fog"?

- a) Cold, moist air is being moved across warm ground areas
- b) Warm, moist air is moved across cold ground areas
- c) Prolonged radiation during nights clear of clouds
- d) Cold, moist air mixes with warm, moist air

60. In what case is visibility transmitted in meters?

- a) Up to 5 km
- b) Greater than 5 km
- c) Up to 10 km
- d) Greater than 10 km

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61. What is the mean height of the tropopause according to ISA (ICAO Standard Atmosphere)?

- a) 11000 ft
- b) 36000 m
- c) 18000 ft
- d) 11000 m

62. The rotational axis of the Earth runs through the...

- a) Magnetic north pole and on the magnetic south pole.
- b) Geographic North Pole and on the geographic South Pole.
- c) Geographic North Pole and on the magnetic south pole.
- d) Magnetic north pole and on the geographic South Pole.

63. What is the reason for the driving forces in an autorotation?

- a) Downward tilted effective airflow
- b) Low rate of descent
- c) Increased pitch angle
- d) High airspeeds

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

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

65. What information is provided in the general part (GEN) of the AIP?

- a) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees
- b) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts, restricted and dangerous airspaces
- c) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods
- d) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces

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66. 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.

67. What is the minimum age to start a private pilot training at a flight school?

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

68. 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.

69. 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

70. 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

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Response Scheme

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

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