

Exam simulation

PPL(H) - Private Pilot License - Meteorology



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STUDENT NAME:

DATE AND TIME:

01. 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.

02. In which outside air temperature is icing most likely?

- a) Between -15° C and 0° C
- b) Between -5° C and +20° C
- c) Between -20° C and +5° C
- d) Between -10° C and +10° C

03. What could be a reason for changing the runway indicators at aerodromes (e.g. from runway 06 to runway 07)?

- a) The magnetic deviation of the runway location has changed
- b) The true direction of the runway alignment has changed
- c) The magnetic variation of the runway location has changed
- d) The direction of the approach path has changed

04. 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

05. 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.

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06. What is the correct way of acknowledging the instruction "DZF after lift-off climb straight ahead until 2500 feet before turning right heading 220 degrees, wind 090 degrees, 5 knots, runway 12, cleared for take-off"?

- a) DZF after lift-off climb straight ahead 2500 feet, wilco, heading 220 degrees, 090 degrees, 5 knots, cleared for take-off
- b) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots, cleared for take-off
- c) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, runway 12, cleared for take-off
- d) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots

07. 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

08. The VFR semicircular rules are based on the...

- a) Magnetic course (MC).
- b) True heading (TH).
- c) True course (TC).
- d) Magnetic heading (MH).

09. What does a readability of 3 indicate?

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

10. What weather is likely to be experienced during "Foehn" in the Bavarian area close to the alps?

- a) Cold, humid downhill wind on the lee side of the alps, flat pressure pattern
- b) High pressure area overhead Biskaya and low pressure area in Eastern Europe
- c) Nimbostratus cloud in the northern alps, rotor clouds at the windward side, warm and dry wind
- d) Nimbostratus cloud in the southern alps, rotor clouds at the lee side, warm and dry wind

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11. Which danger exists during engine start?

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

12. What does a cloud coverage of "SCT" mean in a METAR weather report?

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

13. Carbon monoxide poisoning can be caused by...

- a) Alcohol.
- b) Unhealthy food.
- c) Smoking.
- d) Little sleep.

14. What is the status of the rules and procedures created by the EASA? (e.g. Part-SFCL, Part-MED)

- a) They are not legally binding, they only serve as a guide
- b) They have the same status as ICAO Annexes
- c) They are part of the EU regulation and legally binding to all EU member states
- d) Only after a ratification by individual EU member states they are legally binding

15. The distance between two airports is 220 NM. On an aeronautical navigation chart the pilot measures 40.7 cm for this distance. The chart scale is...

- a) 1 : 2000000.
- b) 1 : 250000.
- c) 1 : 1000000.
- d) 1 : 500000.

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16. Wake turbulence is particularly strong...

- a) When flying at low speeds.
- b) When flying at high altitudes.
- c) When flying at low altitudes.
- d) When flying at high speeds.

17. Which area is suitable for an off-field landing?

- a) Glade with long dry grass
- b) Sports area in a village
- c) Harvested cornfield
- d) Plowed field

18. Given: WCA: -012°; TH: 125°; MC: 139°; DEV: 002°E What are: TC, MH and CH?

- 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°.

19. How can the belts of a belt clutch be tightened?

- a) Approximation of two rotating plates
- b) Increase of drive shaft distance
- c) Increase of engine RPM
- d) Extension of a pneumatic cylinder

20. How do manufacturers reduce the power output of their engines for use in helicopters?

- a) Adjust the ignition timing
- b) Decrease the shaft RPM
- c) Reduce the combustion chamber
- d) Limit the fuel flow

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21. An aeroplane's current supply is carried out by the: 1. Battery 2. Generator 3. Relay 4. Circuit breaker

- a) 3 and 4
- b) 2 and 3
- c) 1 and 4
- d) 1 and 2

22. What kind of hydraulic oil is used in aeroplane systems today?

- a) Synthetic oil
- b) Bio-oil
- c) Mineral oil
- d) Vegetable oil

23. 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.

24. What should be considered regarding a scheduled flight over water, when land cannot be reached in case of an emergency landing?

- a) The flight plan has to contain the exact waypoints
- b) Contact to the nearest ATC shall consist during the whole flight
- c) Transponder code 7600 has to be set during the whole flight
- d) For all passengers there must be life jackets or lifeboats present

25. 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

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26. From which altitude on does the body usually react to the decreasing atmospheric pressure?

- a) 7000 feet
- b) 12000 feet
- c) 2000 feet
- d) 10000 feet

27. Regarding the type of cloud, precipitation is classified as...

- a) Showers of snow and rain
- b) Rain and showers of rain
- c) Light and heavy precipitation
- d) Prolonged rain and continuous rain

28. 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.

29. 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

30. Which Q-code is used for the true bearing to the station?

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

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31. Which force causes "wind"?

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

32. 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

33. The range of NDBs transmitting in the medium frequency range is greatest...

- a) On midday.
- b) Before midday.
- c) In the daytime.
- d) At night.

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

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

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

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

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36. What is the meaning of the abbreviation "SERA"?

- a) Standard European Routes of the Air
- b) Selective Radar Altimeter
- c) Specialized Radar Approach
- d) Standardized European Rules of the Air

37. What does the abbreviation "FIS" stand for?

- a) Flight information service
- b) Flashing information service
- c) Flight information system
- d) Flashing information system

38. What is the meaning of the red range on the airspeed indicator?

- a) Speed which must not be exceeded within bumpy air
- b) Speed which must not be exceeded with flaps extended
- c) Speed which must not be exceeded in turns with more than 45° bank
- d) Speed which must not be exceeded regardless of circumstances

39. SIGMET warnings are issued for...

- a) Specific routings.
- b) Countries.
- c) Airports.
- d) FIRs / UIRs.

40. During an autorotation a helicopter accelerates from 60 to 90 knots without further corrections. The rotor RPM will...

- a) Remain constant
- b) Decrease
- c) Vary
- d) Increase

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41. 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

42. 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

43. 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.

44. Which dangerous situation could arise when the helicopter engine is started in strong tailwind conditions?

- a) Decompression sickness
- b) Carbon monoxide poisoning
- c) Binocular vision
- d) Rotary vertigo

45. Distress messages contain...

- a) Information concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance
- b) Information concerning urgent spare parts which are required for a continuation of flight and which have to be ordered in advance.
- c) Information concerning the apron personell and which imply an imminent danger to landing aircraft.
- d) Information concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.

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46. 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

47. When air masses meet each other head on, how is this referred to and what air movements will follow?

- a) Convergence resulting in air being lifted
- b) Divergence resulting in air being lifted
- c) Convergence resulting in sinking air
- d) Divergence resulting in sinking air

48. 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

49. 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

50. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL110?

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

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

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

52. How often shall a blind transmission be made?

- a) One time
- b) Three times
- c) Two times
- d) Four times

53. What is the correct phrase to begin a blind transmission?

- a) Blind
- b) Transmitting blind
- c) No reception
- d) Listen

54. Anemic hypoxia can be caused by...

- a) High altitudes
- b) Low pressure
- c) Carbon monoxide poisoning
- d) Alcohol

55. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +21°C. The QNH altitude is 6500 ft. The true altitude equals...

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

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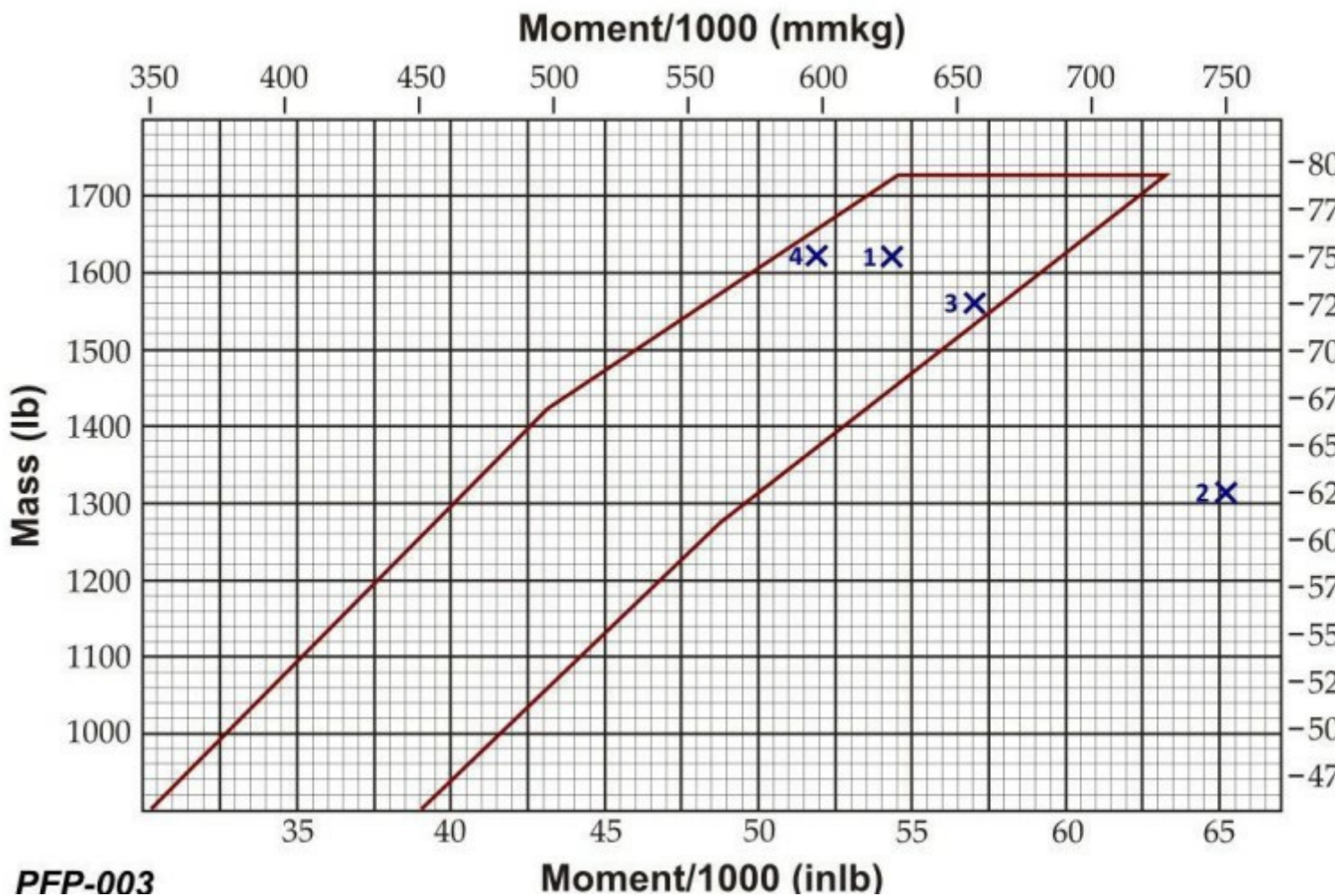


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56. The hydraulic pump of the control system is driven by the...

- a) Main rotor gearbox.
- b) Additional aggregate.
- c) Engine.
- d) Alternator.

57. For the purpose of a flight preparation, the pilot calculates a total take-off mass of 750 kg and a total moment of 625 mmkg. Which cross marks the center of gravity (CG)? See annex (PFP-003)



- a) 1
- b) 3
- c) 4
- d) 2



58. Which is the colour of runway edge lights?

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

59. 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

60. Two aeroplanes are flying on crossing tracks. Which one has to divert?

- a) The aircraft which flies from left to right has the right of priority
- b) The aircraft which flies from right to left has the right of priority
- c) Both have to divert to the left
- d) Both have to divert to the right

61. What wind conditions can be expected in areas showing large distances between isobars?

- a) Strong prevailing easterly winds with rapid backing
- b) Formation of local wind systems with strong prevailing westerly winds
- c) Variable winds, formation of local wind systems
- d) Strong prevailing westerly winds with rapid veering

62. What is the purpose of engine oil in piston engine?

- a) Cooling, lubrication and increasing engine performance.
- b) Cooling, lubrication of the engine and disposal of fine abrasion.
- c) For noise reduction and bearing of the propeller shaft.
- d) Cooling of the engine and lubrication of propeller shaft.

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

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

64. Which factor can lead to human error?

- a) Double check of relevant actions
- b) Proper use of checklists
- c) The bias to see what we expect to see
- d) To be doubtful if something looks unclear or ambiguous

65. The movement of air flowing apart is called...

- a) Subsidence.
- b) Concordance.
- c) Convergence.
- d) Divergence.

66. 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

67. 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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68. 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

69. For what approximate time period can the short-time memory store information?

- a) 10 to 20 seconds
- b) 30 to 40 seconds
- c) 3 to 7 seconds
- d) 35 to 50 seconds

70. The compass error caused by the aircraft's magnetic field is called...

- a) Deviation.
- b) Declination.
- c) Inclination.
- d) Variation.

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Response Scheme

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

01: D

02: B

03: C

04: B

05: B

06: C

07: A

08: A

09: A

10: D

11: D

12: B

13: C

14: C

15: C

16: A

17: C

18: B

19: B

20: B

21: D

22: A

23: A

24: D

25: B

26: A

27: B

28: B

29: D

30: C

31: A

32: A

33: D

34: C

35: D

36: D

37: A

38: D

39: D

40: B

41: A

42: A

43: A

44: B

45: A

46: B

47: A

48: C

49: D

50: A

51: B

52: C

53: B

54: C

55: A

56: A

57: A

58: A

59: A

60: B

61: C

62: B

63: C

64: C

65: D

66: D

67: A

68: C

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: _____		