

Simulazione di Esame

Meteorology - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. Which of the following is responsible for the blood coagulation?

- a) Red blood cells (erythrocytes)
- b) Capillaries of the arteries
- c) White blood cells (leucocytes)
- d) Blood plates (thrombocytes)

02. What is meant by the term "terrestrial navigation"?

- a) Orientation by ground celestial object during visual flight
- b) Orientation by ground features during visual flight
- c) Orientation by GPS during visual flight
- d) Orientation by instrument readings during visual flight

03. What does the abbreviation "FIR" stand for?

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

04. Deflecting the rudder to the left causes...

- a) Pitching of the aircraft to the right.
- b) Yawing of the aircraft to the right
- c) Yawing of the aircraft to the left.
- d) Pitching of the aircraft to the left

05. With increasing altitude, the power of a carburettor engine...

- a) Remains constant.
- b) First decreases, from 5000 ft on increases
- c) Increases
- d) Decreases

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06. Under which circumstances may a runway be considered to be contaminated?

- a) When more than 25 % of the runway surface area within the required length and width being used is covered by water, slush, snow or ice more than 3 mm deep
- b) When 75 % of the required runway length and width are covered by contaminants such as snow, frost, ice or sand
- c) When more than 50 % of the runway surface area within the required length and width being used is covered by water, slush, snow or ice more than 3 mm deep
- d) When more than 50 % of the required runway length and width are covered by contaminants such as snow, frost, ice or sand

07. 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) 7900 ft
- b) 9400 ft
- c) 7300 ft
- d) 7600 ft

08. What is the meaning of the abbreviation "IFR"?

- a) Instrument Flight Rules
- b) Instrument Meteorological Conditions
- c) Bad Weather Flight Rules
- d) Commercial Flight Rules

09. Which altitude is displayed on the altimeter when set to a specific QFE?

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

10. What situation may result in the occurrence of severe wind shear?

- a) Flying ahead of a warm front with visible Ci clouds
- b) Cross-country flying below Cu clouds with about 4 octas coverage
- c) During final approach, 30 min after a heavy shower has passed the airfield
- d) When a shower is visible close to the airfield

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11. Which of the stated surfaces will reduce the wind speed most due to ground friction?

- a) Flat land, deserted land, no vegetation
- b) Oceanic areas
- c) Mountainous areas, vegetation cover
- d) Flat land, lots of vegetation cover

12. Calibrated airspeed (CAS) equals...

- a) Equivalent airspeed (EAS) corrected for altitude.
- b) Indicated airspeed (IAS) corrected for instrument and position error
- c) Ground speed (GS) corrected for instrument and position error
- d) True airspeed (TAS) corrected for wind.

13. Which phrase is used by a pilot when he wants to fly through controlled airspace?

- a) Apply
- b) Want
- c) Would like
- d) Request

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

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

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

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

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

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

17. The aerodynamic rudder balance...

- a) Improves the rudder effectiveness.
- b) Reduces the control surfaces
- c) Reduces the control stick forces
- d) Delays the stall.

18. At which altitude is the atmospheric pressure approximately half the MSL value (1013 hPa)?

- a) 18000 ft
- b) 5000 ft
- c) 10000 ft
- d) 22000 ft

19. What does the abbreviation "QUJ" stand for?

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

20. Where does the condensation water converge in the tank?

- a) It floats on the fuel
- b) It floats on the fuel
- c) At the lowest position
- d) It is mixed with the fuel

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21. What has to be considered with regard to the center of gravity position?

- a) The center of gravity's position can only be determined during flight.
- b) Only correct loading can assure a correct and safe center of gravity position
- c) By moving the elevator trim tab, the center of gravity can be shifted into a correct position
- d) By moving the aileron trim tab, the center of gravity can be shifted into a correct position.

22. What pressure pattern may result from cold-air inflow in high tropospheric layers?

- a) Formation of a low in the upper troposphere
- b) Formation of a high in the upper troposphere
- c) Formation of a large ground low
- d) Alternating pressure

23. Who provides search and rescue service?

- a) Only military organisations
- b) International approved organisations
- c) Only civil organisations
- d) Both military and civil organisations

24. Which weather phenomenon is typically associated with wind shear?

- a) Fog
- b) Invernal warm front.
- c) Thunderstorms
- d) Stable high pressure areas.

25. What should be observed when taxiing behind a commercial airliner?

- a) To avoid wake turbulence, a minimum distance of 700 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 the jet blast, a minimum distance of 200 m should be maintained

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26. Which phenomenon may be expected at point 3 of the microburst? See figure (OPR-001) (1,00 P.) Siehe Anlage 1

- a) Decrease in airspeed
- b) Constant rate of descent
- c) Increase in airspeed
- d) Decrease in climb rate

27. How does inflowing cold air affect the shape and vertical distance between pressure layers?

- a) Increasing vertical distance, raise in height (high pressure)
- b) Decreasing vertical distance, raise in height (high pressure)
- c) Decrease in vertical distance, lowering in height (low pressure)
- d) Increase in vertical distance, lowering in height (low pressure)

28. According to the aeronautical chart, Friesach/Hirt (LOKH) has a 707 m grass runway. Prevailing runway is 17 due to a surface wind of 18010KT. The required landing distance for your aircraft under present conditions is 550 m. Considering the NOTAM below, is it safe to plan LOKH as an alternate aerodrome? See figure (PFP-026) (1,00 P.) Siehe Anlage 17

- a) Don't know
- b) Maybe
- c) Yes
- d) No

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

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

30. The term "moment" with regard to a mass and balance calculation is referred to as...

- a) Sum of a mass and a balance arm.
- b) Quotient of a mass and a balance arm.
- c) Difference of a mass and a balance arm
- d) Product of a mass and a balance arm.

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31. For the purpose of a flight preparation the pilot calculates a total take-off mass of 775 kg and a total moment of 700 mmkg. Which cross marks the center of gravity (CG)? See annex (PFP-005) (1,00 P.) Siehe Anlage 5

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

32. Which of the following is NOT a risk factor for hypoxia?

- a) Smoking
- b) Menstruation
- c) Blood donation
- d) Diving

33. The term ,magnetic course' (MC) is defined as...

- a) The angle between magnetic north and the course line.
- b) The angle between true north and the course line.
- c) The direction from an arbitrary point on Earth to the geographic North Pole.
- d) The direction from an arbitrary point on Earth to the magnetic north pole.

34. An altitude of 4500 ft is transmitted as...

- a) Four thousand five hundred.
- b) Four five thousand.
- c) Four thousand five zero zero.
- d) Four five zero zero.

35. Where is interference drag generated?

- a) At the wing root
- b) At the ailerons
- c) At the the gear
- d) Near the wing tips

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

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

37. Distress messages contain...

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

38. (For this question, please use annex PFP-061) According ICAO, what symbol indicates a group of unlighted obstacles? (2,00 P.) Siehe Anlage 22

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

39. What phrase is used by a pilot to inform the tower about a go-around?

- a) No landing
- b) Pulling up
- c) Going around
- d) Approach canceled

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

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

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41. An aircraft is flying with a true airspeed (TAS) of 120 kt and experiences 35 kt tailwind. How much time is needed for a distance of 185 NM?

- a) 1 h 32 min
- b) 0 h 50 min
- c) 1 h 12 min
- d) 2 h 11 min

42. What visual flight conditions can be expected after the passage of a cold front?

- a) Scattered cloud layers, visibility more than 5 km, formation of shallow cumulus clouds
- b) Good visibility, formation of cumulus clouds with showers of rain or snow
- c) Medium visibility with lowering cloud bases, onset of prolonged precipitation
- d) Poor visibility, formation of overcast or ground-covering stratus clouds, snow

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

44. Wie beeinflusst die Lufttemperatur die Leistung eines Kolbenmotors?

- a) Geringere Temperatur entspricht höherer Luftdichte, dies führt zu geringerer Motorleistung
- b) Höhere Temperatur entspricht geringerer Luftdichte, dies führt zu geringerer Motorleistung
- c) Höhere Temperatur entspricht höherer Luftdichte, dies führt zu höherer Motorleistung
- d) Geringere Temperatur entspricht geringerer Luftdichte, dies führt zu höherer Motorleistung

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

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

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46. How does a laminar boundary layer differ from a turbulent boundary layer?

- a) The laminar boundary layer produces lift, the turbulent boundary layer produces drag
- b) The turbulent boundary layer is thicker and provides less skin-friction drag
- c) The laminar boundary layer is thinner and provides more skin-friction drag
- d) The turbulent boundary layer can follow the airfoil camber at higher angles of attack

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

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

48. Provided that no other procedure is described in the Aircraft Operating Handbook, after increasing the engine power in a go-around, the flaps may...

- a) Not be operated up to the minimum safe altitude
- b) Be retracted to a middle position
- c) Be fully retracted without any delay.
- d) Remain fully extended until reaching the traffic pattern

49. During a descent at idle power with constant speed, the propeller lever is moved backwards. How do the propeller pitch and sink rate change?

- a) Propeller pitch is increased, sink rate is increased
- b) Propeller pitch is increased, sink rate is decreased
- c) Propeller pitch is decreased, sink rate is increased
- d) Propeller pitch is decreased, sink rate is decreased

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

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

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51. Number 3 in the drawing corresponds to the... See figure (PFA-010) (1,00 P.) Siehe Anlage 1

- a) Chord
- b) Thickness
- c) Camber line
- d) Chord line.

52. Which is the most recently determined empty mass and the associated center of gravity (CG) arm from the aircraft documentation? See annex (PFP-006) (1,00 P.) Siehe Anlage 6

- a) 5 kg; 1.3 m
- b) 4 kg; 1.1 m
- c) 498 kg; 280.59 m
- d) 512 kg; 285.39 m

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

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

54. What is the unit for electrical power?

- a) Ampere
- b) Ohm
- c) Watt
- d) Volt

55. How do induced drag and parasite drag change with increasing airspeed during a horizontal and stable cruise flight?

- a) Induced drag decreases and parasite drag increase
- b) Parasite drag decreases and induced drag increases
- c) Parasite drag decreases and induced drag decreases
- d) Induced drag increases and parasite drag increases

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56. What pressure pattern can be observed during the passage of a polar front low?

- a) Rising pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- b) Falling pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- c) Falling pressure in front of the warm front, constant pressure within the warm sector, falling pressure behind the cold front
- d) Rising pressure in front of the warm front, rising pressure within the warm sector, falling pressure behind the cold front

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

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

58. What is the purpose of winglets?

- a) Increase gliding performance at high speed.
- b) Increase of lift and turning manoeuvring capabilities
- c) To increase efficiency of aspect ratio
- d) Reduction of induced drag

59. Of what shape is a landing direction indicator?

- a) L
- b) A straight arrow
- c) An angled arrow
- d) T

60. The transponder code in case of a radio communication failure is...

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

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61. Given the following conditions, the climb speed equals... Outside air temperature: -20° C Pressure altitude: 10000 ft See annex (PFP-011) (1,00 P.) Siehe Anlage 11

- a) 200 ft/min
- b) 350 ft/min.
- c) 390 ft/min
- d) 450 ft/min.

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

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

63. What weather conditions can be expected during "Foehn" on the windward side of a mountain range?

- a) Dissipating clouds with unusual warming, accompanied by strong, gusty winds
- b) Scattered cumulus clouds with showers and thunderstorms
- c) Layered clouds, mountains obscured, poor visibility, moderate or heavy rain
- d) Calm wind and forming of high stratus clouds (high fog)

64. What is the correct term for a message used for air traffic control?

- a) Flight regularity message
- b) Meteorological message
- c) Message related to direction finding
- d) Flight safety message

65. The drag coefficient...

- a) Increases with increasing airspeed.
- b) Is proportional to the lift coefficient.
- c) Cannot be lower than a non-negative, minimal value.
- d) May range from zero to an infinite positive value

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66. May an engine, which previously was on fire, be restarted?

- a) No, the risk of a reignition of the fire would be too high
- b) Yes, if the aircraft is flying at a safe altitude
- c) Yes, but only on the ground for the purpose of taxiing
- d) Yes, but only if the cause of the fire was a carburettor fire during engine start

67. An aircraft is flying with an indicated airspeed (IAS) of 150 kt at 8000 ft MSL. According to the rule of thumb, the true airspeed (TAS) equals...

- a) 174 kt.
- b) 150 kt
- c) 142 kt.
- d) 208 kt

68. How does wind affect the take-off performance?

- a) Tailwind aids the aircraft in overcoming the initial drag at the commencement of the take-off roll. The take-off distance will decrease
- b) Tailwind reduces the relative wind on the airfoil. The take-off distance will increase
- c) Headwind causes an increased airflow around the wing. The take-off distance will increase
- d) Headwind imposes an increased drag on the aircraft. The take-off distance will increase

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

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

70. In airspace "D" a Boeing 737 and a Cessna 152 are flying on crossing courses. Which aeroplane has to divert?

- a) The Cessna 152, because IFR and commercial flights have priority
- b) The air traffic control (ATC) has to decide which one has to divert
- c) The aeroplane flying from right to left has priority, the other one has to divert
- d) The Boeing 737, because an airliner has greater power reserves

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Schema Risposte

Confronta le risposte fornite con il seguente schema e segna il tuo punteggio!

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