

Simulazione di Esame

Human factor and limitations - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. Which conditions are likely for the formation of advection fog?

- a) Cold, humid air moves over a warm ocean
- b) Warm, humid air moves over a cold surface
- c) Warm, humid air cools during a cloudy night
- d) Humidity evaporates from warm, humid ground into cold air

02. Given: True course from A to B: 352°. Ground distance: 100 NM. GS: 107 kt. Estimated time of departure (ETD): 0933 UTC. The estimated time of arrival (ETA) is...

- a) 1129 UTC.
- b) 1029 UTC.
- c) 1146 UTC
- d) 1045 UTC.

03. Which answer is correct concerning stress?

- a) Stress can occur if there seems to be no solution for a given problem
- b) Training and experience have no influence on the occurrence of stress
- c) Stress and its different symptoms are irrelevant for flight safety
- d) Everybody reacts to stress in the same manner

04. The angle of attack is the angle between...

- a) The undisturbed airflow and the longitudinal axis of an aeroplane.
- b) The chord line and the longitudinal axis of an aeroplane
- c) The chord line and the oncoming airflow
- d) The wing and the fuselage of an aeroplane.

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

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

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06. 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 speed.
- d) The aircraft flying at higher altitude.

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

08. Which runway designators are correct for 2 parallel runways?

- a) "06L" and "06R"
- b) "18" and "18-2"
- c) "26" and "26R"
- d) "24" and "25"

09. 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

10. What pressure pattern can be observed at a lift-generating wing profile at positive angle of attack?

- a) Low pressure is created above, higher pressure below the profile
- b) High pressure is created above, lower pressure below the profile
- c) Pressure above remains unchanged, higher pressure is created below the profile
- d) Pressure below remains unchanged, lower pressure is created above the profile

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11. 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

12. In straight and level flight with constant performance of the engine, the angle of attack at the wing is...

- a) Greater than in a climb.
- b) Greater than at take-off
- c) Smaller than in a descent
- d) Smaller than in a climb

13. During a straight and steady climb, which force acts additionally, and in the same direction as the drag force, resulting in more power required for climb than for horizontal flight?

- a) A component of the weight force along the rearward flight path
- b) The vertical component of the weight force
- c) A component of the thrust along the rearward flightpath.
- d) A component of the lift force along the forward flightpath.

14. What is the percentage of oxygen in the atmosphere at 6000 ft?

- a) 21 %
- b) 12 %
- c) 78 %
- d) 18.9 %

15. Which of the following messages has the highest priority?

- a) Turn left
- b) Request QDM
- c) QNH 1013
- d) Wind 300 degrees, 5 knots

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16. The correct transponder code for emergencies is...

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

17. The center of pressure is the theoretical point of origin of...

- a) Only the resulting total drag.
- b) All aerodynamic forces of the profile
- c) Gravity forces of the profile
- d) Gravity and aerodynamic forces

18. 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) (1,00 P.) Siehe Anlage 3

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

19. Which of the following documents have to be on board for an international flight? a) Certificate of aircraft registration b) Certificate of airworthiness c) Airworthiness review certificate d) EASA Form-1 e) Airplane logbook f) Appropriate papers for every crew member g) Technical logbook

- a) B, c, d, e, f, g
- b) A, b, c, e, f
- c) A, b, e, g
- d) D, f, g

20. The minimum flight visibility at 5000 ft MSL in airspace B for VFR flights is...

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

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21. A flight plan has been filed for a flight departing at an uncontrolled aerodrome. When has the actual take-off time been transmitted to ATC?

- a) Upon request from ATC.
- b) When landing is assured
- c) Immediately after take-off.
- d) At deviation from expected off-block time by more than 15 min.

22. What does the abbreviation "HX" stand for?

- a) No specific opening hours
- b) Sunrise to sunset
- c) Sunset to sunrise
- d) 24 h service

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

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

24. An aircraft is flying from 'A' to 'B' (distance 220 NM) at an average ground speed (GS) of 120 kt. It departs 'A' at 1200 UTC. After 70 NM along the course from 'A', the aircraft is 5 min ahead of the planned schedule. Using the actual GS, what is the revised estimated time of arrival (ETA) at B?

- a) 1335 UTC
- b) 1340 UTC
- c) 1345 UTC
- d) 1330 UTC

25. What does the abbreviation "H24" stand for?

- a) Sunrise to sunset
- b) 24 h service
- c) No specific opening times
- d) Sunset to sunrise

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26. What is the minimum flight visibility in airspace "C" at and above FL 100 for an aircraft operating under VFR?

- a) 1.5 km
- b) 5 km
- c) 10 km
- d) 8 km

27. Which phenomenon may be expected at point 2 of the microburst? See figure (OPR-001) (1,00 P.) Siehe Anlage 1

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

28. Which of the following options does NOT stimulate motion sickness (disorientation)?

- a) Head movements during turns
- b) Flying under the influence of alcohol
- c) Non-accelerated straight and level flight
- d) Turbulence in level flight

29. What extinguishing agent is the least suitable for an aircraft fire?

- a) Powder
- b) Halon
- c) Water
- d) Foam

30. Which part of the cycle of a four-stroke Otto engine can be seen in the attachment? See figure (AGK-007) (1,00 P.) Siehe Anlage 5

- a) Second stroke - compression
- b) Fourth stroke - exhaust
- c) First stroke - induction
- d) Third stroke - power

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31. The validity of a medical examination certificate class 2 for a 62 years old pilot is...

- a) 60 Months.
- b) 48 Months.
- c) 24 Months
- d) 12 Months.

32. What is the meaning of a steady green light signal at a controlled aerodrome directed to an aircraft in flight?

- a) Give way to other aircraft and continue circling
- b) Cleared to land
- c) Return for landing, followed by steady green at the appropriate time
- d) Airport unsafe, do not land

33. 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)

34. What is the true airspeed (TAS) [kt] and fuel consumption [l/h] for cruise flight with 70 % power in flight level 60 under the following conditions? Temperature: ISA - 20° C QNH: 980 hPa See annex (PFP-012) (2,00 P.) Siehe Anlage 10

- a) 110 kt. 23.9 l/h.
- b) 100 kt. 19.3 l/h.
- c) 95 kt. 19.6 l/h.
- d) 105 kt. 21.5 l/h

35. What are the effects of wet grass on the take-off and landing distance?

- a) Decrease of the take-off distance and increase of the landing distance
- b) Increase of the take-off distance and increase of the landing distance
- c) Decrease of the take-off distance and decrease of the landing distance
- d) Increase of the take-off distance and decrease of the landing distance

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36. 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

37. What is the radial from VOR Brünkendorf (BKD) (53°02'N, 011°33'E) to Pritzwalk (EDBU) (53°11'N, 12°11'E)? See annex (NAV-031) (1,00 P.) Siehe Anlage 3

- a) 024°
- b) 204°
- c) 248°
- d) 068°

38. Which curve represents the induced drag? See Appendix (PFA-011)

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

39. A VOR radial corresponds to the...

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

40. Wake turbulence is caused by...

- a) Wind shear at the wingtip of an aerofoil.
- b) Jet blast behind a turbine engine
- c) Turbulence at the downwind side of a mountain range
- d) Pressure compensation at the wingtip of an aerofoil.

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41. 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

42. Smoke enters the cockpit during an engine fire. Which actions have to be taken immediately?

- a) Switching off the master switch and the ignition
- b) Switching off the heating and the ventilating system
- c) Switching off the pitot and front window heating
- d) Switching off the avionics and the cabin lighting

43. An aeroplane has a heading of 090°. The distance which has to be flown is 90 NM. After 45 NM the aeroplane is 4.5 NM north of the planned flight path. What is the corrected heading to reach the arrival aerodrome directly?

- a) 18° to the right
- b) 12° to the right
- c) 6° to the right
- d) 9° to the right

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

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

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

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

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46. A vertical speed indicator measures the difference between...

- a) Instantaneous total pressure and previous total pressure.
- b) Total pressure and static pressure.
- c) Instantaneous static pressure and previous static pressure.
- d) Dynamic pressure and total pressure

47. Which statement about induced drag during the horizontal cruise flight is correct?

- a) Induced drag has a minimum at a certain speed and increases at higher as well as lower speeds
- b) Induced drag has a maximum at a certain speed and decreases at higher as well as lower speeds
- c) Induced drag increases with increasing airspeed
- d) Induced drag decreases with increasing airspeed

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

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

49. The "spread" is defined as...

- a) Relation of actual to maximum possible humidity of air.
- b) Maximum amount of water vapour that can be contained in air.
- c) Difference between dew point and condensation point.
- d) Difference between actual temperature and dew point.

50. What is meant by "inversion layer"?

- a) An atmospheric layer where temperature decreases with increasing height
- b) A boundary area between two other layers within the atmosphere
- c) An atmospheric layer with constant temperature with increasing height
- d) An atmospheric layer where temperature increases with increasing height

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51. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?

- a) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS
- b) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection is $\pm 10^\circ$.
- c) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection is ± 10 NM.
- d) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS.

52. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance A = Arousal / Stress Siehe Anlage 1

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

53. What effects typically result from propeller icing?

- a) Reduced power output, decreasing RPM
- b) Increased power output, decreasing RPM.
- c) Increased power output, increasing RPM.
- d) Reduced power output, increasing RPM.

54. When is it necessary to adjust the pressure in the reference scale of an altimeter?

- a) Before every flight and during cross country flights
- b) Every day before the first flight
- c) Once a month before flight operation
- d) After maintenance has been finished

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55. What action should be taken when entering a windshear? 1. Reduce speed 2. Retract gear and flaps 3. Maintain current configuration 4. Adjust thrust

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

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

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

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

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

58. The airspeed indicator is unservicable. The airplane may only be operated...

- a) When the airspeed indicator is fully functional again.
- b) When a GPS with speed indication is used during flight.
- c) If no maintenance organisation is around
- d) If only airfield patterns are flown.

59. What does a readability of 5 indicate?

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

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60. 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)

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

62. Given: True course: 270°. TAS: 100 kt. Wind: 090°/25 kt. Distance: 100 NM. The ground speed (GS) equals...

- a) 125 kt.
- b) 117 kt.
- c) 120 kt
- d) 131 kt

63. Which process may result in an inversion layer at about 5000 ft (1500 m) height?

- a) Intensive sunlight insolation during a warm summer day
- b) Widespread descending air within a high pressure area
- c) Ground cooling by radiation during the night
- d) Advection of cool air in the upper troposphere

64. Which answer is correct with regard to separation in airspace "E"?

- a) IFR traffic is separated only from VFR traffic
- b) VFR traffic is separated from VFR and IFR traffic
- c) VFR traffic is separated only from IFR traffic
- d) VFR traffic is not separated from any other traffic

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65. An ATIS is valid for...

- a) 10 minutes
- b) 45 minutes.
- c) 60 minutes.
- d) 30 minutes

66. The critical angle of attack...

- a) Changes with increasing weight.
- b) Decreases with forward center of gravity position
- c) Is independent of the weight.
- d) Increases with backward center of gravity position.

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

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

68. What is indicated by a pattern of longitudinal stripes of uniform dimensions disposed symmetrically about the centerline of a runway?

- a) At this point the glide path of an ILS hits the runway
- b) Do not touch down before them
- c) Do not touch down behind them
- d) A ground roll could be started from this position

69. What change of wind direction can be expected during the passage of a polar front low in Central Europe?

- a) Backing wind during passage of the warm front, veering wind during passage of the cold front
- b) Backing wind during passage of the warm front, backing wind during passage of the cold front
- c) Veering wind during passage of the warm front, veering wind during passage of the cold front
- d) Veering wind during passage of the warm front, backing wind during passage of the cold front

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70. 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

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Schema Risposte

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

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