

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. 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.

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

03. 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

04. The thickness of the wing is defined as the distance between the lower and the upper side of the wing at the...

- a) Most inner part of the wing.
- b) Thinnest part of the wing.
- c) Thickest part of the wing.
- d) Most outer part of the wing.

05. What is the meaning of the abbreviation "AIREP"?

- a) Aircraft report
- b) Aeronautical instrument requirement report
- c) Automatic identification report
- d) Aeronautical information report

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06. Which point on the aerofoil is represented by number 4? See figure (PFA-009) (1,00 P.) Siehe Anlage 2

- a) Center of pressure
- b) Separation point
- c) Transition point
- d) Stagnation point

07. What process results in the formation of "orographic fog" ("hill fog")?

- a) Prolonged radiation during nights clear of clouds
- b) Warm, moist air is moved across a hill or a mountain range
- c) Cold, moist air mixes with warm, moist air
- d) Evaporation from warm, moist ground area into very cold air

08. 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) 1115 UTC
- b) 1105 UTC.
- c) 1005 UTC
- d) 1052 UTC

09. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at 5000 ft MSL?

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

10. How does a balance tab move in relation to the flight control surface that it is coupled with?

- a) In the opposite direction
- b) At an angle of 90°
- c) At an angle of 45°
- d) In the same direction

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

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

12. An inversion is a layer ...

- a) With increasing pressure with increasing height.
- b) With decreasing temperature with increasing height.
- c) With constant temperature with increasing height.
- d) With increasing temperature with increasing height.

13. 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

14. How are the flight controls on a small single-engine piston aircraft normally controlled and actuated?

- a) Power-assisted through hydraulic pumps or electric motors
- b) Hydraulically through hydraulic pumps and actuators
- c) Manually through rods and control cables
- d) Electrically through fly-by-wire

15. 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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16. What situation is called "over-development" in a weather report?

- a) Vertical development of Cumulus clouds to rain showers
- b) Widespreading of Cumulus clouds below an inversion layer
- c) Change from blue thermals to cloudy thermals during the afternoon
- d) Development of a thermal low to a storm depression

17. With only a slight crosswind, what is the danger at take-off after the departure of a heavy aeroplane?

- a) Wake turbulence on or near the runway
- b) Wake turbulence is amplified and distorted.
- c) Wake turbulence rotate faster and higher.
- d) Wake turbulence twisting transverse to the runway

18. How do spread and relative humidity change with increasing temperature?

- a) Spread increases, relative humidity decreases
- b) Spread remains constant, relative humidity decreases
- c) Spread increases, relative humidity increases
- d) Spread remains constant, relative humidity increases

19. An acceleration during a straight horizontal flight can lead to the illusion of...

- a) A descent.
- b) A climb.
- c) An inverted flight.
- d) A bank.

20. 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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21. What is the difference in latitude between A (12°53'30"N) and B (07°34'30"S)?

- a) 20°28'00"
- b) 05,19°
- c) 20,28°
- d) 05°19'00"

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

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

23. The speed VS0 is defined as...

- a) Maximum landing gear extended speed
- b) Stalling speed or minimum steady flight speed obtained in a specific configuration.
- c) Stalling speed or minimum steady flight speed in landing configuration.
- d) Stalling speed or minimum steady flight speed in landing configuration.

24. What is the approximate speed of electromagnetic wave propagation?

- a) 123000 m/s
- b) 300000 km/s
- c) 123000 km/s
- d) 300000 m/s

25. What impression may be caused when approaching a runway with an upslope?

- a) A landing beside the centerline
- b) A hard landing
- c) An undershoot
- d) An overshoot

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26. In what case is visibility transmitted in meters?

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

27. What values are usually marked with a red line on instrument displays?

- a) Operational limits
- b) Caution areas
- c) Recommended areas
- d) Operational areas

28. The ongoing process to monitor the current flight situation is called...

- a) Constant flight check.
- b) Situational thinking.
- c) Anticipatory check procedure.
- d) Situational awareness

29. A landing conducted in response to circumstances forcing the aircraft to land is a / an...

- a) Precautionary landing.
- b) Urgent landing.
- c) Emergency landing
- d) Field or out landing

30. In which way does the position of the center of pressure move at a positively shaped profile with increasing angle of attack?

- a) It moves backward until reaching the critical angle of attack
- b) It moves forward first, then backward
- c) It moves forward until reaching the critical angle of attack
- d) It moves to the wing tips

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31. Which would be the correct reaction when hydroplaning is suspected upon landing?

- a) Add power and use flaps and spoilers to brake aerodynamically
- b) Apply maximum braking to reduce aircraft speed to less than hydroplaning speed, then continue normal ground roll
- c) Cross rudder and aileron controls in order to use the aircraft fuselage to brake aerodynamically
- d) If all wheels are in motion, brake moderately. Maintain directional control by aerodynamic means

32. The altimeter's reference scale is set to airfield pressure (QFE). What indication is shown during the flight?

- a) Pressure altitude
- b) Height above airfield
- c) Airfield elevation
- d) Altitude above MSL

33. What is the subject of ICAO Annex 1?

- a) Air traffic services
- b) Flight crew licensing
- c) Rules of the air
- d) Operation of aircraft

34. When increasing the airflow speed by a factor of 2 while keeping all other parameters constant, how does the parasite drag change approximately?

- a) It decreases by a factor of 2
- b) It increases by a factor of 2
- c) It decreases by a factor of 4
- d) It increases by a factor of 4

35. How does the pilot prepare for a VFR flight over a large distance of water, when it is unlikely that land can be reached in case of an engine failure?

- a) File a flight plan including the exact way-points
- b) Be prepared to fly with transponder only
- c) Carry life vests or a life raft for all occupants.
- d) Maintain continuous radio contact with ATC.

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36. 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

37. What is the correct term for an involuntary and stereotypical reaction of an organism to the stimulation of a receptor?

- a) Reduction
- b) Virulence
- c) Coherence
- d) Reflex

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

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

39. 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

40. Which of the following frequencies is designated for VHF voice communication?

- a) 118.75 kHz
- b) 327.25 MHz
- c) 327.25 kHz
- d) 118.75 MHz

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41. What is a cause for the dip error on the direct-reading compass?

- a) Deviation in the cockpit
- b) Acceleration of the airplane
- c) Inclination of earth's magnetic field lines
- d) Temperature variations

42. All aerodynamic forces can be considered to act on a single point. This point is called...

- a) Center of gravity.
- b) Center of pressure.
- c) Lift point.
- d) Transition point.

43. 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

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

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

45. The term "runway" is defined as a...

- a) Round area on an aerodrome prepared for the landing and take-off of aircraft
- c) Rectangular area on a land or water aerodrome prepared for the landing and take-off of aircraft.
- d) Rectangular area on a land aerodrome prepared for the landing and take-off of helicopters.

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46. What are the primary and the secondary effects of a rudder input to the left?

- a) Primary: yaw to the left Secondary: roll to the right
- b) Primary: yaw to the left Secondary: roll to the left
- c) Primary: yaw to the right Secondary: roll to the left
- d) Primary: yaw to the right Secondary: roll to the right

47. Wake turbulence is particularly strong...

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

48. What is the call sign of the flight information service?

- a) Info
- b) Advice
- c) Flight information
- d) Information

49. What is the fuel flow and the true airspeed for cruise flight with 60 % power in flight level 85 at an OAT of -25° C? See annex (PFP-014) (1,00 P.) Siehe Anlage 13

- a) Fuel flow: 17 l. TAS: 81 kt.
- b) Fuel flow: 17.5 l. TAS: 83 kt
- c) Fuel flow: 20 l. TAS: 89 kt.
- d) Fuel flow: 18.5 l. TAS: 85 kt.

50. What kind of drag is NOT part of the parasite drag?

- a) Interference drag
- b) Skin-friction drag
- c) Induced drag
- d) Form drag

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

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

52. What information can be obtained from satellite images?

- a) Temperature and dew point of environmental air
- b) Turbulence and icing
- c) Flight visibility, ground visibility, and ground contact
- d) Overview of cloud covers and front lines

53. With increasing altitude and unchanged mixture setting, the air/fuel mixture...

- a) Becomes more lean
- b) Stays constant
- c) Becomes liquid
- d) Becomes richer.

54. Given the following conditions, the TAS equals... Outside air temperature: -2° C Pressure altitude: 8000 ft Power: 75 % See annex (PFP-014) (1,00 P.) Siehe Anlage 13

- a) 104 kt
- b) 100 kt.
- c) 95 kt.
- d) 110 kt

55. 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.

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56. Being intercepted by a military aircraft at daytime, what is the meaning of the following signal: Alternating movement of the ailerons, normally left of the intercepted aircraft, followed by a smooth turn to the left?

- a) Prepare for a safety landing, you have entered a prohibited area
- b) You are entering a restricted area, leave the airspace immediately
- c) Follow me
- d) You are clear of any restricted or reserved airspaces, you can continue on your heading

57. The temperature lapse rate with increasing height within the troposphere according ISA is...

- a) 0,65° C / 100 m
- b) 3° C / 100 m.
- c) 1° C / 100 m
- d) 0,6° C / 100 m.

58. 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

59. At which airspeed do you climb to flight level (FL) 75 after a departure from an airfield which is located at a pressure altitude of 3000 ft with an initial mass of 3000 lbs? OAT at airfield: 25° C OAT in FL 75: 0° C See annex (PFP-023) (1,00 P.) Siehe Anlage 14

- a) 90 kt
- b) 120 kt
- c) 110 kt
- d) 100 kt

60. What does the term "confirmation bias" mean?

- a) The feedback loop in a closed communication
- b) The preference to find arguments to proof the own mental model
- c) The bias to confirm each radio call
- d) The critical check of ambiguous situations in flight

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61. Which of the following is NOT a symptom of hyperventilaton?

- a) Cyanose
- b) Tingling
- c) Spasm
- d) Disturbance of consciousness

62. Which transponder code indicates a radio failure?

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

63. 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

64. The beginning of the green arc (2) indicates which airspeed? See figure (PFP-008) (1,00 P.) Siehe Anlage 8

- a) VS1: Stall speed with flaps up
- b) VS0: Stall speed in landing configuration
- c) VFE: Maximum flap extended speed
- d) VNO: Maximum speed for normal operations

65. After an engine failure, the windmilling propeller...

- a) Generates neither thrust nor drag.
- b) Has a greater pitch in feathered position
- c) Generates drag rather than thrust.
- d) Improves the properties of the glide

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66. A take-off with flaps in take-off position causes...

- a) An increased rate of climb
- b) An increased acceleration
- c) A shortening of the take-off run.
- d) A decrease in drag.

67. 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 6 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 true horizon.
- c) 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.
- 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.

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

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

69. 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

70. How can a pilot confirm a search and rescue signal on ground in flight?

- a) Rock the wings
- b) Push the rudder in both directions multiple times
- c) Fly in a parabolic flight path multiple times
- d) Deploy and retract the landing flaps multiple times

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Schema Risposte

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

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