

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. When extending the flaps for landing at constant angle of attack, in which way does the lift coefficient change far before reaching the maximum lift coefficient?

- a) It decreases
- b) It is not possible to define
- c) It increases
- d) It remains constant

02. 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

03. During final approach, the glider pilot realizes a very bumpy surface on a selected off field landing site. What technique may be recommended for landing?

- a) Touch down with minimum speed, compensate different ground levels with power lever
- b) Approach with increased speed, push elevator upon first ground contact
- c) Touch down with minimum speed, keep elevator pulled until full stop
- d) Approach with increased speed, avoid using wheel brakes

04. The term "flight time" is defined as...

- a) The period from the start of the take-off run to the final touchdown when landin
- b) The total time from the first aircraft movement until the moment it finally comes to rest at the end of the flight.
- c) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown. ? the total time f
- d) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown. ? the total time f

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05. When should turns at low altitudes above villages be avoided with regard to noise abatement procedures?

- a) In descent
- b) In climb
- c) During the approach
- d) In horizontal flight

06. 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.

07. The balance arm is the horizontal distance between...

- a) The front C.G. limit and the datum line
- b) The C.G. of a mass and the rear C.G. limit
- c) The C.G. of a mass and the datum line
- d) The front C.G. limit and the rear C.G. limit

08. What are the minimum requirements among others to acquire a rating for VFR night flights?

- a) At least 10 additional flight hours at night, three of them with a flight instructor with at least 1 hour cross-country flight plus 5 solo take-offs and full-stop landings
- b) At least 5 additional flight hours at night, four of them with a flight instructor with at least 1 hour cross-country flight plus 5 solo take-offs and full-stop landings
- c) At least 5 additional flight hours at night, three of them with a flight instructor with at least 1 hour cross-country flight plus 5 solo take-offs and full-stop landings
- d) At least 5 additional flight hours at night, three of them with a flight instructor with at least 1 hour cross-country flight plus 10 solo take-offs and full-stop landings

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09. Which stage of a thunderstorm is dominated by updrafts?

- a) Dissipating stage
- b) Upwind stage
- c) Mature stage
- d) Cumulus stage

10. 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

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

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

12. 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

13. Which is the colour of runway end lights?

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

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14. What cloud type can typically be observed across widespread high pressure areas during summer?

- a) Overcast low stratus
- b) Scattered Cu clouds
- c) Overcast Ns clouds
- d) Squall lines and thunderstorms

15. Which characteristic is important when choosing sunglasses used by pilots?

- a) Non-polarised
- b) No UV filter
- c) Curved sidepiece
- d) Unbreakable

16. Clouds are basically distinguished by what types?

- a) Stratiform and ice clouds
- b) Layered and lifted clouds
- c) Cumulus and stratiform clouds
- d) Thunderstorm and shower clouds

17. The movement of air flowing together is called...

- a) Convergence
- b) Divergence
- c) Soncordence
- d) Subsidence

18. Immediately after lift-off, a microburst is entered inadvertently. Which action might avoid an unintentional descent?

- a) Immediately after lift-off, a microburst is entered inadvertently. Which action might avoid an unintentional descent?
- b) Set maximum power, retract landing gear and flaps, pick up speed and perform a left or a right turn in an attempt to leave the area of the microburst on the shortest way
- c) Set maximum power, retract landing gear and flaps, increase pitch until attaining optimum climb speed
- d) Set maximum power, maintain present aircraft configuration, pick up speed in an attempt to leave the area of the microburst as fast as possible

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

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

20. (For this questions use attachment or CAP697 SEP1 Fig. 2.2 Table 2.2.3) For planning a VFR flight, the following data are given: Flight time with planning "overhead-overhead" = 2h 43min Pressure Altitude = 6.500 ft Temperature = ISA-20 Power setting = 2300 RPM Taxi Fuel = 2 USG Additional time for climb = 7 min, Additional time for approach and landing = 10 min The reserve fuel has to be 30% of trip fuel. Determine the minimum block fuel: (2,00 P.) Siehe Anlage 21

- a) 47.3 USG
- b) 50.4 USG
- c) 43.8 USG
- d) 39.2 USG

21. What conditions are favourable for the formation of thunderstorms?

- a) Warm humid air, conditionally unstable environmental lapse rate
- b) Calm winds and cold air, overcast cloud cover with St or As
- c) Clear night over land, cold air and patches of fog
- d) Warm and dry air, strong inversion layer

22. 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.

23. The term "static pressure" is defined as pressure...

- a) Inside the airplane cabin.
- b) Of undisturbed airflow.
- c) Resulting from orderly flow of air particles.
- d) Sensed by the pitot tube.

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24. What does the dynamic pressure depend directly on?

- a) Air pressure and air temperature
- b) Air density and airflow speed squared
- c) Air density and lift coefficient
- d) Lift- and drag coefficient

25. Which factor can be changed by deploying flaps for landing?

- a) The position of the center of gravity
- b) The effectiveness of the ailerons
- c) The twist effect of the engine
- d) The trim condition

26. Pressure drag, interference drag and friction drag belong to the group of the...

- a) Induced drag
- b) Parasite drag.
- c) Main resistance
- d) Total drag

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

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

28. Temperatures will be given by meteorological aviation services in Europe in which unit?

- a) Degrees Centigrade (° C)
- b) Kelvin
- c) Gpdam
- d) Degrees Fahrenheit

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29. The differenz between indicated DME slant range and horizontal distance from the DME station increases...

- a) When circling around the DME station
- b) When descending
- c) When departing the DME station
- d) When approaching the DME station

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

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

31. Which phenomenon may be expected at point 3 of the miroburst? 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

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

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

33. Which items should a passenger briefing in case of an imminent emergency landing include?

- a) How to work the aircraft radio, emergency transponder squawk, telephone number of the competent search and rescue (SAR) center
- b) Blood type of the other aircraft occupants, location of the first-aid kit
- c) Nature of the emergency, intentions, safety position, evacuation routes, actions after landing
- d) How to read an emergency checklist, how to cut the engine, telephone number of the home airport

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34. In case of an emergency ditching, the life vests have to be inflated...

- a) Before disembarking the aircraft.
- b) During disembarking the aircraft
- c) After disembarking the aircraft at a safe distance of about 10 m.
- d) After disembarking the aircraft

35. Who provides search and rescue service?

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

36. What is checked by the marking in the attachment? See figure (AGK-006) (1,00 P.) Siehe Anlage 4

- a) The tread wear of the tire
- b) The operating pressure of the carcass
- c) The correct position of the tire relative to the rim
- d) The correct position of the outer isolation layers

37. 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

38. Which instantaneous information can be obtained from ground radar equipment?

- a) Distance and direction
- b) Airspeed (TAS) and distance
- c) Airspeed (TAS) and heading
- d) Direction and airspeed (TAS)

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39. What weather phenomena have to be expected around an upper-level trough?

- a) Calm wind, forming of shallow cumulus clouds
- b) Calm weather, formation of lifted fog layers
- c) Formation of high stratus clouds, ground-covering cloud bases
- d) Development of showers and thunderstorms (Cb)

40. How can the pilot of an engine-driven aircraft minimise the noise emission during descent and approach?

- a) How can the pilot of an engine-driven aircraft minimise the noise emission during descent and approach?
- b) Descent and approach in landing configuration while maintaining a descent angle of 3°, direct approach whenever possible
- c) Low approach with minimum power setting, late configuration and steep approach, adherence to established arrival routes
- d) High approach with minimum power setting, late descent, late configuration, adherence to established arrival routes

41. 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

42. What is the correct term for the system which, among others, controls breathing, digestion, and heart frequency?

- a) Critical nervous system
- b) Autonomic nervous system
- c) Automatical nervous system
- d) Compliant nervous system

43. 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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44. 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

45. The result of a front C.G. position is: 1. Increase in stability. 2. Increase in fuel consumption. 3. Increase in stall speed. 4. Increase in range.

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

46. Assume calm wind and an aircraft descending from 9000 ft to 1500 ft. The rate of descent (ROD) equals 1200 ft/min. The elapsed time will be...

- a) 6 min.
- b) 15 min
- c) 12 min
- d) 8 min.

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

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

48. 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.

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49. 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.

50. In what case is the pilot allowed to abbreviate the call sign of his aircraft?

- a) After the ground station has used the abbreviation
- b) Within controlled airspace
- c) If there is little traffic in the traffic circuit
- d) After passing the first reporting point

51. 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

52. In which way may an altimeter subscale which is set to an incorrect QNH lead to an incorrect altimeter reading?

- a) If the subscale is set to a lower than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- b) If the subscale is set to a higher than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- c) If the subscale is set to a lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended
- d) If the subscale is set to a higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended

53. 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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54. Point number 5 in the figure indicates which flight state? See figure (PFA-008) (1,00 P.) Siehe Anlage 5

- a) Best gliding angle
- b) Slow flight
- c) Stall
- d) Inverted flight

55. The conversion factor from kilogram [kg] into pounds [lb] is...

- a) $\text{Kg} \times 2 = \text{lb}$.
- b) $\text{Kg} \times 2.205 = \text{lb}$.
- c) $\text{Kg} / 2.205 = \text{lb}$.
- d) $\text{Kg} \times 0.454 = \text{lb}$

56. Baggage and cargo must be properly stowed and fastened, otherwise a shift of the cargo may cause...

- a) Continuous attitudes which can be corrected by the pilot using the flight controls.
- b) Structural damage, angle of attack stability, velocity stability
- c) Uncontrollable attitudes, structural damage, risk of injuries.
- d) Calculable instability if the C.G. is shifting by less than 10 %.

57. What phrase is used by a pilot if a transmission is to be answered with "no"?

- a) Negative
- b) Not
- c) Finish
- d) No

58. The load factor "n" describes the relationship between...

- a) Thrust and drag.
- b) Drag and lift.
- c) Lift and weight.
- d) Weight and thrust.

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59. 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

60. In order to improve the stall characteristics of an aircraft, the wing is twisted outwards (the angle of incidence varies spanwise). This is known as...

- a) Aerodynamic washout
- b) Arrow shape
- c) V-form.
- d) Geometric washout

61. The on-board equipment of the secondary surveillance radar (SSR) is called...

- a) Course indicator.
- b) Transponder.
- c) Interrogator
- d) Decoder

62. For a short flight from A to B the pilot extracts the following information from an aeronautical chart: True course: 245°. Magnetic variation: 7° W The magnetic course (MC) equals...

- a) 252°
- b) 245°.
- c) 007°
- d) 238°.

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

- a) 120.50 MHz
- b) 115.15 MHz
- c) 108.80 MHz
- d) 117.30 kHz

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64. What clouds and weather can typically be observed during the passage of a cold front?

- a) In coastal areas during daytime wind from the coast and forming of cumulus clouds, dissipation of clouds during evening and night
- b) Strongly developed cumulus clouds (Cb) with showers of rain and thunderstorms, gusting wind followed by cumulus clouds with isolated showers of rain
- c) Cirrus, thickening altostratus and altocumulus clouds, lowering cloud base with rain, nimbostratus
- d) Wind becoming calm, dissipation of clouds and warming during summer; formation of extended high fog layers during winter

65. Which of the following options states a correct position report?

- a) DEABC reaching "N"
- b) DEABC over "N" in FL 2500 ft
- c) DEABC, "N", 2500 ft
- d) DEABC over "N" at 35

66. What information is provided in the part "AD" of the AIP?

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

67. How are rhumb lines and great circles depicted on a direct Mercator chart?

- a) Rhumb lines: curved lines Great circles: straight lines
- b) Rhumb lines: curved lines Great circles: curved lines
- c) Rhumb lines: straight lines Great circles: curved lines
- d) Rhumb lines: straight lines Great circles: straight lines

68. What is the correct way to transmit the call sign OE-JVK?

- a) Omega Echo Jankee Victor Kilo
- b) Oscar Echo Jankee Victor Kilogramm
- c) Oscar Echo Juliett Victor Kilo
- d) Oscar Echo Juliett Victor Kilo

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69. What is the correct designation of the frequency band from 118.000 to 136.975 MHz used for voice communication?

- a) LF
- b) VHF
- c) MF
- d) HF

70. In case of a stall it is important to...

- a) Increase the bank angle and reduce the speed
- b) Increase the angle of attack and increase the speed.
- c) Decrease the angle of attack and increase the speed
- d) Increase the angle of attack and reduce the speed.

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Schema Risposte

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

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