

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. The term "ceiling" is defined as the...

- a) Altitude of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.
- b) Height of the base of the lowest layer of clouds covering more than half of the sky below 10000 ft.
- c) Height of the base of the highest layer of clouds covering more than half of the sky below 20000 ft.
- d) Height of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.

02. What cloud type does the picture show? See figure (MET-002). Siehe Anlage 2

- a) Stratus
- b) Cumulus
- c) Altus
- d) Cirrus

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

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

04. 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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05. What is the meaning of "risky shift"?

- a) Crossing of rudder and ailerons on short final
- b) The tendency to accept higher risks in groups
- c) Spontaneous change of landing direction when the runway has an upslope
- d) Seat adjustment in flight

06. What is the correct way of establishing radio communication between D-EAZF and Dusseldorf Tower?

- a) Dusseldorf Tower over
- b) DEAZF is calling Dusseldorf Tower
- c) Dusseldorf Tower D-EAZF
- d) Tower from D-EAZF

07. The term "center of gravity" is defined as...

- a) The heaviest point on an aeroplane.
- b) Half the distance between the neutral point and the datum line.
- c) Another designation for the neutral point
- d) The point at which the total mass of the aeroplane is considered to act.

08. For the purpose of a flight preparation the pilot calculates a total take-off mass of 725 kg and a total moment of 650 mmkg. Which cross marks the center of gravity (CG)? See annex (PFP-004) (1,00 P.) Siehe Anlage 4

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

09. Considering the following fuel data, how much trip fuel is required? Fuel for start-up and taxi: 5 L Fuel for take-off and climb: 12 L Fuel for cruise flight: 25 L Fuel for descent, approach and landing: 7 L Fuel for taxi and parking: 3 L Fuel to alternate: 13 L Final reserve fuel: 10 L

- a) 75 L
- b) 52 L
- c) 49 L
- d) 44 L

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10. An aircraft is flying with a true airspeed (TAS) of 180 kt and a headwind component of 25 kt for 2 hours and 25 minutes. The distance flown equals...

- a) 693 NM
- b) 435 NM.
- c) 375 NM.
- d) 202 NM.

11. 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

12. What engines are commonly used with Touring Motor Gliders (TMG)?

- a) 4 Cylinder; 4 stroke
- b) 4 Cylinder 2 stroke
- c) 2 Cylinder Diesel
- d) 2 plate Wankel

13. (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 42min Pressure Altitude = 7.500 ft Temperature = ISA Power setting = 2300 RPM Taxi Fuel = 2 USG Additional time for climb = 8 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) 51.8 USG
- b) 37.7 USG
- c) 46.4 USG
- d) 48.4 USG

14. Which climb speed may be used to optimize the rate of climb (e.g. to reach a desired altitude within minimum time)?

- a) V_y , the best angle of climb speed
- b) V_y , the best rate of climb speed
- c) V_x , the best rate of climb speed
- d) V_x , the best angle of climb speed

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

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

16. 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

17. What is the correct way of acknowledging the instruction "Next report PAH"?

- a) Positive
- b) Roger
- c) Report PAH
- d) Wilco

18. 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

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

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

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20. What visual flight conditions can be expected within the warm sector of a polar front low during summer time?

- a) Visibility less than 1000 m, cloud-covered ground
- b) Good visibility, some isolated high clouds
- c) Moderate to good visibility, scattered clouds
- d) Moderate visibility, heavy showers and thunderstorms

21. 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

22. Which of the following are an aircraft's secondary flight controls?

- a) Elevator, rudder, aileron
- b) All movable parts on the aircraft which aid in controlling the aircraft
- c) Elevator, rudder, aileron, trim tabs, high-lift wing devices, power controls
- d) Wing flaps, leading edge devices, spoilers or speedbrakes, trim systems

23. What type of turbulence is typically found close to the ground on the lee side during Foehn conditions?

- a) Inversion turbulence
- b) Turbulence in rotors
- c) Clear-air turbulence (CAT)
- d) Thermal turbulence

24. 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

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25. In which situations should a pilot use blind transmissions?

- a) When no radio communication can be established with the appropriate aeronautical station, but when evidence exists that transmissions are received at that ground unit
- b) When a pilot has flown into cloud or fog unintentionally and therefore would like to request navigational assistance from a ground unit
- c) When a transmission containing important navigational or technical information is to be sent to several stations at the same time
- d) When the traffic situation at an airport allows the transmission of information which does not need to be acknowledged by the ground station

26. Wings level after a longer period of turning can lead to the impression of...

- a) Starting a descent.
- b) Starting a climb.
- c) Steady turning in the same direction as before
- d) Turning into the opposite direction

27. The shortest distance between two points on Earth is represented by a part of...

- a) A great circle
- b) A small circle.
- c) A rhumb line.
- d) A parallel of latitude.

28. The height of the tropopause of the International Standard Atmosphere (ISA) is at...

- a) 5500 ft.
- b) 11000 ft.
- c) 36000 ft.
- d) 48000 ft.

29. Given: True course: 165°. TAS: 90 kt. Wind: 130°/20 kt. Distance: 153 NM. The true heading equals...

- a) 126°.
- b) 158°.
- c) 152°
- d) 152°

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30. Which of the items below may have an influence on the noise perceived by a person on the ground? 1) Engine power setting 2) Propeller revolutions per minute 3) Position of the landing gear 4) Flap position 5) Flight track 6) Height above ground 7) Flight rules

- a) 1, 2, 3, 4, 5, 6
- b) 1, 5, 6
- c) 1, 5, 6, 7
- d) 3, 4, 5, 6, 7

31. What is the usual direction of movement of a polar front low?

- a) To the northwest during winter, to the southwest during summer
- b) To the northeast during winter, to the southeast during summer
- c) Parallel to the warm front line to the south
- d) Parallel to the the warm-sector isobars

32. Which validity does the "Certificate of Airworthiness" have?

- a) 6 months
- b) 12 years
- c) Unlimited
- d) 12 months

33. The ratio of span and mean chord length is referred to as...

- a) Trapezium shape.
- b) Tapering
- c) Aspect ratio.
- d) Wing sweep.

34. What does the term "Red-out" mean?

- a) "Red vision" during negative g-loads
- b) Rash during decompression sickness
- c) Anaemia caused by an injury
- d) Falsified colour perception during sunrise and sunset

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35. 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

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

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

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

38. What cloud sequence can typically be observed during the passage of a warm front?

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

39. What weather conditions can be expected in high pressure areas during summer?

- a) Changing weather with passing of frontal lines
- b) Squall lines and thunderstorms
- c) Calm winds and widespread areas with high fog
- d) Calm weather and cloud dissipation, few high Cu

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40. What is meant by "ground effect"?

- a) Increase of lift and increase of induced drag close to the ground
- b) Decrease of lift and increase of induced drag close to the ground
- c) Decrease of lift and decrease of induced drag close to the ground
- d) Increase of lift and decrease of induced drag close to the ground

41. What danger does standing water on the runway pose to aircraft?

- a) Decreased rolling resistance during take-off
- b) An increase in lift
- c) Increased rolling resistance during take-off
- d) A decrease in lift

42. Unless the aircraft is equipped and certified accordingly...

- a) Flight into known or forecast icing conditions is only allowed as long as it is ensured that the aircraft can still be operated without performance degradation.
- b) Flight into forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, the flight may be continued as long as visual meteorological conditions are maintained.
- c) Flight into known or forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, it should be left without delay.
- d) Flight into areas of precipitation is prohibited

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

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

44. What type of fog emerges if humid and almost saturated air, is forced to rise upslope of hills or shallow mountains by the prevailing wind?

- a) Orographic fog
- b) Steaming fog
- c) Radiation fog
- d) Advection fog

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45. 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

46. What is the meaning of the abbreviation "VMC"?

- a) Instrument flight conditions
- b) Variable meteorological conditions
- c) Visual meteorological conditions
- d) Visual flight rules

47. Fading in LF/MF frequency range occurs mainly...

- a) In the late afternoon.
- b) At midday.
- c) During the night.
- d) In the daytime.

48. Which section of the flight manual describes the basic empty mass of an aircraft?

- a) Normal procedures
- b) Limitations
- c) Performance
- d) Weight and balance

49. Which of the following qualities are influenced by stress? 1. Attention 2. Concentration 3. Responsiveness 4. Memory

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

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50. A distance of 7.5 cm on an aeronautical chart represents a distance of 60.745 NM in reality. What is the chart scale?

- a) 1 : 500000
- b) 1 : 1 000000
- c) 1 : 150000
- d) 1 : 1500000

51. What is meant by "isothermal layer"?

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

52. How much taxi fuel must be consumed before take-off to reduce the aircraft mass to the maximum take-off mass? Maximum ramp mass (MRM): 1150 kg Actual ramp mass: 1148 kg Maximum take-off mass (MTOM): 1145 kg

- a) 2 L
- b) 3 L
- c) 5 L
- d) 4 L

53. The average decrease of blood alcohol level for an adult in one hour is approximately...

- a) 0.1 percent.
- b) 0.01 percent.
- c) 0.03 percent.
- d) 0.3 percent.

54. 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

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55. Which of the following options are possible SSR-Transponder modes?

- a) A, C, S
- b) A, C, R
- c) B, C, V
- d) B, R, S

56. What conditions are mandatory for the formation of thermal thunderstorms?

- a) Conditionally unstable atmosphere, low temperature and low humidity
- b) Absolutely stable atmosphere, high temperature and high humidity
- c) Absolutely stable atmosphere, high temperature and low humidity
- d) Conditionally unstable atmosphere, high temperature and high humidit

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

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

58. The ideal level of arousal is at which point in the diagram? See figure (HPL- 002) P = Performance A = Arousal / Stress Siehe Anlage 1

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

59. Rotation around the lateral axis is called...

- a) Rolling
- b) Stalling
- c) Yawing
- d) Pitching

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60. What phrase is used by a pilot if a transmission is to be answered with "yes"?

- a) Roger
- b) Yes
- c) Affirm
- d) Affirmative

61. In which situation is it NOT possible to achieve a pressure compensation between the middle ear and the environment?

- a) During a light and slow climb
- b) All windows are completely closed
- c) Breathing takes place using the mouth only
- d) The eustachien tube is blocked

62. 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

63. Which are the properties of a Mercator chart?

- a) The scale is constant, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- b) The scales increases with latitude, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- c) The scales increases with latitude, great circles are depicted as straight lines, rhumb lines are depicted as curved lines
- d) The scale is constant, great circles are depicted as straight lines, rhumb lines are depicted as curved lines

64. The aerodynamic rudder balance...

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

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65. 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)

66. A pilot receives a QDR of 135° from the VDF ground station. Where is the aircraft located in relation to the ground station?

- a) Northwest
- b) Southeast
- c) Southwest
- d) Northeast

67. Which wing configuration is shown in the attachment? See figure (AGK-002) (1,00 P.) Siehe Anlage 1

- a) Strut-braced high wing
- b) High wing
- c) Mid wing
- d) Low wing

68. What does a readability of 3 indicate?

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

69. Which statement describes a situation of static stability?

- a) An aircraft distorted by external impact will tend to an even more deflected position
- b) An aircraft distorted by external impact will return to the original position
- c) An aircraft distorted by external impact can return to its original position by rudder input
- d) An aircraft distorted by external impact will maintain the deflected position

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70. A construction made of frames and stringer with a supporting skin is called...

- a) Honeycomb structure
- b) Grid construction.
- c) Wood- or mixed construction.
- d) Semi-monocoque construction.

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Schema Risposte

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

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