

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. What pressure pattern can be observed when a cold front is passing?

- a) Continually decreasing pressure
- b) Shortly decreasing, thereafter increasing pressure
- c) Continually increasing pressure
- d) Constant pressure pattern

02. Where is the brake system installed to slow the aircraft on ground?

- a) On the tail wheel
- b) On the nose and main gear
- c) Only on the nose gear
- d) Only on the main gear

03. 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

04. QNE is the...

- a) Barometric pressure at a reference datum, typically the runway threshold of an airfield
- b) Magnetic bearing to a station.
- c) Barometric pressure adjusted to sea level, using the international standard atmosphere (ISA).
- d) Altitude above the reference pressure level 1013.25 hPa.

05. What could be a reason for changing the runway indicators at aerodromes (e.g. from runway 06 to runway 07)?

- a) The magnetic deviation of the runway location has changed
- b) The magnetic variation of the runway location has changed
- c) The direction of the approach path has changed
- d) The true direction of the runway alignment has changed

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06. A deceleration during a straight horizontal flight can lead to the illusion of...

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

07. The majority of aviation accidents are caused by...

- a) Technical failure
- b) Meteorological influences.
- c) Geographical influences.
- d) Human failure.

08. Which statement is correct with regard to the short-term memory?

- a) It can store 10 (± 5) items for 30 to 60 seconds
- b) It can store 7 (± 2) items for 10 to 20 seconds
- c) It can store 3 (± 1) items for 5 to 10 seconds
- d) It can store 5 (± 2) items for 1 to 2 minutes

09. 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

10. 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)

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11. Given values: Calculated take-off mass = 746 kg calculated CG = 37.1 cm fuel burn = 30.5 l on station 45 cm. Where is the CG situated after the landing?

- a) 37.2 cm
- b) 37.5 cm
- c) 36.3 cm
- d) 36.9 cm

12. The static pressure of gases work...

- a) Only vertical to the flow direction.
- b) Only in the direction of the total pressure.
- c) In all directions.
- d) Only in flow direction

13. In which phase of flight must the carburettor heating be switched off although carburettor icing might be expected?

- a) During climb
- b) During cruise
- c) During taxi
- d) During take-off

14. 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

15. 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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16. 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

17. What is the difference between spin and spiral dive?

- a) Spin: stall at outer wing, speed constant; Spiral dive: airflow at both wings, speed increasing rapidly
- b) Spin: stall at inner wing, speed constant; Spiral dive: airflow at both wings, speed increasing rapidly
- c) Spin: stall at outer wing, speed increasing rapidly; Spiral dive: airflow at both wings, speed constant
- d) Spin: stall at inner wing, speed increasing rapidly; Spiral dive: airflow at both wings, speed constant

18. What structural item provides lateral stability to an airplane?

- a) Differential aileron deflection
- b) Wing dihedral
- c) Vertical tail
- d) Elevator

19. 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

20. 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

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21. 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

22. The aerodynamic rudder balance...

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

23. 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

24. What is the purpose of "interception lines" in visual navigation?

- a) To visualize the range limitation from the departure aerodrome
- b) They help to continue the flight when flight visibility drops below VFR minima
- c) To mark the next available en-route airport during the flight
- d) They are used as easily recognizable guidance upon a possible loss of orientation

25. Which information from a ground station does not require readback?

- a) Runway in use
- b) Wind
- c) SSR-Code
- d) Altitude

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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. 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

28. The term QTE means...

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

29. What clouds and weather may result from an humid and instable air mass, that is pushed against a chain of mountains by the predominant wind and forced to rise?

- a) Embedded CB with thunderstorms and showers of hail and/or rain.
- b) Thin Altostratus and Cirrostratus clouds with light and steady precipitation.
- c) Overcast low stratus (high fog) with no precipitation.
- d) Smooth, unstructured NS cloud with light drizzle or snow (during winter)

30. Flying with speeds higher than the never-exceed-speed (vNE) may result in...

- a) Too high total pressure resulting in an unusable airspeed indicator.
- b) Flutter and mechanically damaging the wings.
- c) An increased lift-to-drag ratio and a better glide angle
- d) Reduced drag with increased control forces

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31. 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

32. What must be considered for cross-border flights?

- a) Transmission of hazard reports
- b) Regular location messages
- c) Approved exceptions
- d) Requires flight plans

33. Which direction corresponds to 'compass north' (CN)?

- a) The most northerly part of the magnetic compass in the aircraft, where the reading takes place
- b) The direction from an arbitrary point on Earth to the geographical North Pole
- c) The angle between the aircraft heading and magnetic north
- d) The direction to which the direct reading compass aligns due to earth's and aircraft's magnetic fields

34. The required data for a mass and balance calculation including masses and balance arms can be found in the...

- a) Performance section of the pilot's operating handbook of this particular aircraft
- b) Mass and balance section of the pilot's operating handbook of this particular aircraft
- c) Documentation of the annual inspection.
- d) Certificate of airworthiness.

35. During an approach the aeroplane experiences a windshear with a decreasing tailwind. 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 higher, IAS increases
- c) Path is lower, IAS decreases
- d) Path is lower, IAS increases

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36. (For this questions, use attachment or CAP697 SEP1 Fig. 2.2 Table 2.2.3) Planning a flight from EDWF (Leer Papenburg) to EDWH (Oldenburg Hatten), the following conditions apply: Cruise level = FL 75 Temperature = ISA Cruise weight = 3400 lbs Power setting = 23.0 in. HG @ 2300 RPM Determine True Airspeed (TAS) and Fuel Flow (FF): (2,00 P.) Siehe Anlage 21

- a) TAS = 145 kt FF = 71.1 GPH
- b) TAS = 160 kt FF = 12.3 GPH
- c) TAS = 160 kt FF = 11.9 GPH
- d) TAS = 145 kt FF = 11.9 GPH

37. What is the meaning of the phrase "Approved"?

- a) I have received all of your last transmission
- b) I understand your message and will comply with it
- c) Permission for proposed action is granted
- d) An error has been made in this transmission. The correct version is...

38. What does a cloud coverage of "FEW" mean in a METAR weather report?

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

39. Which altitude marks the lower limit where the the body is unable to completely compensate the effects of the low atmospheric pressure?

- a) 12000 feet
- b) 22000 feet
- c) 5000 feet
- d) 7000 feet

40. Which of the following factors affects the reception of VHF transmissions?

- a) Altitude
- b) Shoreline effect
- c) Twilight error
- d) Height of ionosphere

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

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

42. 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

43. What pattern can be found at the stagnation point?

- a) The boundary layer starts separating on the upper surface of the profile
- b) The laminar boundary layer changes into a turbulent boundary layer
- c) All aerodynamic forces can be considered as attacking at this single point
- d) Streamlines are divided into airflow above and below the profile

44. The change in pitch at a propeller blade from the root to the tip ensures...

- a) That the most thrust is produced at the blade tip
- b) That the most thrust is produced at the blade root
- c) A nearly constant load by a constant effective angle of attack over the entire length of the blade.
- d) The largest possible angle of attack at the blade tip

45. 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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46. Weather and operational information about the destination aerodrome can be obtained during the flight by...

- a) VOLMET
- b) PIREP
- c) ATIS
- d) SIGMET

47. Which danger exists after a heavy rain shower for a landing aircraft?

- a) Displacement of the tire slip marking
- b) Difficult flare due to glare
- c) Longer braking distance due to aquaplaning
- d) Decreased braking distance due to aquaplaning

48. How should a power decrease be executed on a constant-speed propeller, provided that no other procedure is described in the flight manual?

- a) 1) Decrease RPM 2) Decrease manifold pressure
- b) 1) Decrease manifold pressure 2) Increase RPM
- c) 1) Decrease RPM 2) Increase manifold pressure
- d) 1) Decrease manifold pressure 2) Decrease RPM

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

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

50. How do dew point and relative humidity change with decreasing temperature?

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

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51. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PFP-024) (1,00 P.) Siehe Anlage 18

- a) Height 9500 ft
- b) Altitude 9500 ft MSL
- c) Altitude 9500 m MSL
- d) Flight Level 95

52. Which of the instruments listed below obtain their readings through pressure measurement?

- a) Oil pressure gauge, fuel pressure gauge, manifold pressure gauge, altimeter, vertical speed indicator, airspeed indicator, suction gauge
- b) Oil pressure gauge, fuel pressure gauge, fuel quantity gauge, manifold pressure gauge, differential pressure gauge, altimeter
- c) Airspeed indicator, vertical speed indicator, altimeter, directional gyro, turn and bank coordinator, oil pressure gauge, fuel pressure gauge
- d) Airspeed indicator, vertical speed indicator, altimeter, magnetic compass, oil pressure gauge, fuel pressure gauge

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. 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

55. 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

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56. During a flight with a flight plan submitted, landing is conducted at an airfield other than the destination stated in the filed flight plan. Who has to be contacted by the pilot immediately?

- a) Local office for aerial supervision
- b) The flight manager on duty
- c) Aeronautical Information Service (AIS).
- d) The police department.

57. 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.

58. Given the following data for a VFR flight: Take-off fuel: 180 kg including reserve fuel, which is 30% of take off fuel. After half of the distance the remaining fuel is 100 kg. Assume that cruise conditions will remain unchanged. Determine the remaining fuel at the destination:

- a) 80 kg
- b) 40 kg
- c) 10 kg
- d) 20 kg

59. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are the VAR and the DEV?

- a) VAR: 004° W. DEV: +002°.
- b) VAR: 004° W. DEV: -002°
- c) VAR: 004° E. DEV: +002°.
- d) VAR: 004° E. DEV: -002°

60. 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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61. Visual illusions are mostly caused by...

- a) Rapid eye movements.
- b) Misinterpretation of the brain.
- c) Colour blindness.
- d) Binocular vision.

62. What is the correct abbreviation of the call sign D-EAZF?

- a) DEA
- b) AZF
- c) DZF
- d) DEF

63. 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)

64. 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

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

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

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66. How can wind speed and wind direction be derived from surface weather charts?

- a) By alignment and distance of isobaric lines
- b) By alignment and distance of hypsometric lines
- c) By alignment of lines of warm- and cold fronts.
- d) By annotations from the text part of the chart

67. Calculated take-off mass = 2300 lbs, calculated CG = 95.75 in, fuel burn = 170 lbs on station 87.00 in. Where is the CG situated after the landing?

- a) 97.39 in
- b) 96.45 in
- c) 94.11 in
- d) 96.57 in

68. A frequency of 119.500 MHz is correctly transmitted as...

- a) One one niner tousand decimal five zero.
- b) One one niner decimal five
- c) One one niner decimal five zero.
- d) One one niner decimal five zero zero.

69. Of what shape is a landing direction indicator?

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

70. How are two parallel runways designated?

- a) The left runway gets the suffix "L", the right runway "R"
- b) The left runway gets the suffix "L", the right runway remains unchanged
- c) The left runway gets the suffix "-1", the right runway "-2"
- d) The left runway remains unchanged, the right runway designator is increased by 1

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Schema Risposte

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

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