

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 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

02. Which of the following options is likely to produce large induced drag?

- a) Large aspect ratio
- b) Tapered wings
- c) Small aspect ratio
- d) Low lift coefficients

03. 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

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

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

05. What does the reported runway condition "WET" mean?

- a) Some water patches are visible
- b) The surface of the runway is soaked, but there are no significant patches of standing water
- c) A large part of the surface is flooded
- d) The runway is clear of water, ice, and snow

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06. 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

07. Which kinds of drag contribute to total drag?

- a) Form drag, skin-friction drag, interference drag
- b) Interference drag and parasite drag
- c) Induced drag, form drag, skin-friction drag
- d) Induced drag and parasite drag

08. According to ICAO Anex 14, which is the colour marking of a runway?

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

09. 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

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

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11. Mountain side updrafts can be intensified by ...

- a) Solar irradiation on the windward side
- b) Solar irradiation on the lee side
- c) By warming of upper atmospheric layers
- d) Thermal radiation of the windward side during the night

12. How does aircraft flap configuration influence the take-off performance?

- a) A higher flap setting decreases ground roll and increases lift-off speed and climb performance
- b) A higher flap setting decreases ground roll and lift-off speed and increases climb performance
- c) A higher flap setting increases ground roll, lift-off speed, and climb performance
- d) A higher flap setting decreases ground roll and lift-off speed, but also climb performance

13. What happens to the true airspeed at a constant indicated airspeed during a climb?

- a) It decreases
- b) It increases
- c) It remains constant below 5000 ft
- d) It remains constant above 5000 ft

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

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

15. Urgency messages are messages...

- a) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.
- b) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- c) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation.
- d) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight

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16. Wake turbulence is particularly strong...

- a) When flying at high speeds
- b) When flying at high altitudes
- c) When flying at low speeds
- d) When flying at low altitudes

17. 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

18. 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.

19. What information is broadcasted on a VOLMET frequency?

- a) Navigational information
- b) NOTAMS
- c) Current information
- d) Meteorological information

20. What has to be considered when taking off in a ground inversion?

- a) Climb should be performed with the lowest possible speed and maximum power
- b) Due to low temperatures close to the ground, icing has to be expected
- c) During climb, a sudden decrease in speed and climb performance has to be expected
- d) During the climb, a sudden increase in speed and climb performance has to be expected

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21. Which statement about the airflow around an aerofoil is correct if the angle of attack decreases?

- a) The center of pressure moves aft
- b) The stagnation point remains constant
- c) The stagnation point moves down
- d) The center of pressure moves forward

22. 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

23. 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.

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

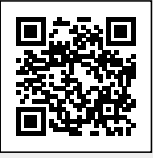
- a) DEA
- b) AZF
- c) DZF
- d) DEF

25. The range of NDBs transmitting in the medium frequency range is greatest...

- a) Before midday.
- b) At night.
- c) On midday
- d) In the daytime.

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26. 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

27. What kind of information should be included in an urgency message?

- a) Nature of problem or observation, important information for support, departure aerodrome, information about position, heading and altitude
- b) Intended routing, important information for support, intentions of the pilot, information about position, departure aerodrome, heading and altitude
- c) Nature of problem or observation, important information for support, intentions of the pilot, information about position, heading and altitude
- d) Intended routing, important information for support, intentions of the pilot, departure aerodrome, destination aerodrome, heading and altitude

28. What is necessary for the determination of speed (IAS) by the airspeed indicator?

- a) The difference between the total pressure and the dynamic pressure
- b) The difference between the standard pressure and the total pressure
- c) The difference between the total pressure and the static pressure
- d) The difference between the dynamic pressure and the static pressure

29. The pressure at MSL in ISA conditions is...

- a) 113.25 hPa.
- b) 15 hPa.
- c) 1013.25 hPa
- d) 1123 hPa.

30. When air masses meet each other head on, how is this referred to and what air movements will follow?

- a) Convergence resulting in sinking air
- b) Divergence resulting in sinking air
- c) Convergence resulting in air being lifted
- d) Divergence resulting in air being lifted

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

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

32. What is the meaning of the red range on the airspeed indicator?

- a) Speed which must not be exceeded within bumpy air
- b) Speed which must not be exceeded with flaps extended
- c) Speed which must not be exceeded regardless of circumstances
- d) Speed which must not be exceeded in turns with more than 45° bank

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

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

34. What is the required distance to climb from FL 65 to FL 95 under the following conditions: Aircraft mass: 3000 lb. OAT in FL 65: -5° C OAT in FL 95: -15° C See annex (PFP-023) (1,00 P.) Siehe Anlage 14

- a) 6 NM
- b) 3 NM
- c) 16 NM
- d) 10 NM

35. Which statement concerning the angle of attack is correct?

- a) The angle of attack cannot be negative
- b) Increasing the angle of attack results in decreasing lift
- c) The angle of attack is constant throughout the flight
- d) A too large angle of attack may result in a loss of lift

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36. What is the period of validity of a private pilot license (PPL)?

- a) Unlimited
- b) 24 months
- c) 48 months
- d) 60 months

37. 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

38. What is the correct way to transmit the call sign HB-YKM?

- a) Home Bravo Yuliett Kilo Mike
- b) Hotel Bravo Yankee Kilo Mike
- c) Hotel Bravo Yuliett Kilo Mikro
- d) Home Bravo Yankee Kilo Mikro

39. At what rate does the temperature change with increasing height according to ISA (ICAO Standard Atmosphere) within the troposphere?

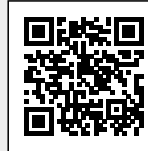
- a) Decreases by 2° C / 1000 ft
- b) Increases by 2° C / 1000 ft
- c) Decreases by 2° C / 100 m
- d) Increases by 2° C / 100 m

40. Air consists of oxygen, nitrogen and other gases. What is the approximate percentage of other gases?

- a) 0.1 %
- b) 78 %
- c) 1 %
- d) 21 %

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41. 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

42. 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

43. The center of gravity (CG) defines...

- a) The point on the longitudinal axis or its extension from which the centers of gravity of all masses are referenced.
- b) The point through which the force of gravity is said to act on a mass.
- c) The distance from the datum to the position of a mass.
- d) The product of mass and balance arm.

44. With regard to thunderstorms, strong up- and downdrafts appear during the...

- a) Initial stage.
- b) Dissipating stage
- c) Mature stage
- d) Thunderstorm stage.

45. What does a readability of 2 indicate?

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

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46. Under which circumstances is it more likely to accept higher risks?

- a) If there is not enough information available
- b) During check flights due to a high level of nervousness
- c) During flight planning when excellent weather is forecast
- d) Due to group-dynamic effects

47. What is an indication for a macho attitude?

- a) Careful walkaround procedure
- b) Comprehensive risk assessment when faced with unfamiliar situations
- c) Risky flight maneuvers to impress spectators on ground
- d) Quick resignation in complex and critical situations

48. Air traffic control service is conducted by which services?

- a) TWR (aerodrome control service) APP (approach control service) ACC (area control service)
- b) APP (approach control service) ACC (area control service) FIS (flight information service)
- c) ALR (alerting service) SAR (search and rescue service) TWR (aerodrome control service)
- d) FIS (flight information service) AIS (aeronautical information service) AFS (aeronautical fixed telecommunication service)

49. How does air temperature change in ISA from MSL to approx. 10.000 m height?

- a) From +20° to -40°C
- b) From +30° to -40°C
- c) From -15° to 50°C
- d) From +15° to -50°C

50. During a flight, a flight plan can be filed at the...

- a) Flight Information Service (FIS).
- b) Search and Rescue Service (SAR).
- c) Next airport operator en-route.
- d) Aeronautical Information Service (AIS).

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51. 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...

52. A pilot wants to approach an NDB on QDM 090°. The aircraft flies for about 5 minutes with a magnetic heading (MH) of 095° and the RBI indication of 355°. After 6 minutes the RBI indicates 358°. Which statement is correct?

- a) The crosswind component increased; the pilot has to increase the MH
- b) The crosswind component increased; the pilot has to decrease the MH
- c) The crosswind component decreased; the pilot has to increase the MH
- d) The crosswind component decreased; the pilot has to decrease the MH

53. What is the parallax error?

- a) Long-sightedness due to aging especially during night
- b) Wrong interpretation of instruments caused by the angle of vision
- c) Misperception of speed during taxiing
- d) A decoding error in communication between pilots

54. The pressure compensation between wind upper and lower surface results in ...

- a) Laminar airflow by wing tip vortices.
- b) Profile drag by wing tip vortices.
- c) Induced drag by wing tip vortices.
- d) Lift by wing tip vortices

55. Anemic hypoxia can be caused by...

- a) Carbon monoxide poisoning.
- b) Low pressure
- c) High altitudes.
- d) Alcohol

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56. What is the meaning of the phrase "Roger"?

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

57. Rotation around the vertical axis is called...

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

58. What has to be considered with regard to the center of gravity position?

- a) The center of gravity's position can only be determined during flight.
- b) Only correct loading can assure a correct and safe center of gravity position
- c) By moving the elevator trim tab, the center of gravity can be shifted into a correct position
- d) By moving the aileron trim tab, the center of gravity can be shifted into a correct position.

59. 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

60. 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.

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61. Through which factor listed below does the load factor increase during cruise flight?

- a) A forward centre of gravity
- b) Higher aeroplane weight
- c) An upward gust
- d) Lower air density

62. Which tail assembly is shown in the attachment? See figure (AGK-003) (1,00 P.) Siehe Anlage 2

- a) V-tail
- b) T-tail
- c) Fuselage-mounted tail
- d) Cruciform tail

63. Given the following data for a VFR flight: Trip fuel = 70 US gallons Contingency fuel = 5% of trip fuel Alternate and final reserve fuel = 20 US gallons Usable fuel at take-off = 95 US gallons After half of the distance you read that you have consumed 40 US gallons. Assume that fuel flow remains unchanged. Which statement is correct?

- a) Upon landing 15.0 US gallons will remain in addition to alternate and final reserve fuel.
- b) Upon landing 5.0 US gallons will remain in addition to alternate and final reserve fuel
- c) Upon landing, a total of 40.0 US gallons will remain.
- d) The remaining fuel is insufficient for a landing at destination with alternate and final reserve fuel remaining.

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

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

65. Winds blowing downhill are defined as...

- a) Anabatic winds.
- b) Katabatic winds.
- c) Convergent winds.
- d) Subsident winds.

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66. 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.

67. Which kind of engine is susceptible to carburettor fire?

- a) Piston engines
- b) Turbine engines
- c) Electric motors
- d) Turboprop engines

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

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

69. Which statement about a rhumb line is correct?

- a) A rhumb line cuts each meridian at the same angle.
- b) The center of a complete cycle of a rhumb line is always the Earth's center.
- c) The shortest track between two points along the Earth's surface follows a rhumb line
- d) A rhumb line is a great circle intersecting the the equator with 45° angle.

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

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

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Schema Risposte

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

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