

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. During a flight in colder-than-ISA air the indicated altitude is...

- a) Higher than the true altitude.
- b) Lower than the true altitude.
- c) Equal to the true altitude.
- d) Equal to the standard altitude.

02. The critical angle of attack...

- a) Changes with increasing weight.
- b) Decreases with forward center of gravity position
- c) Is independent of the weight.
- d) Increases with backward center of gravity position.

03. 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

04. In a METAR, "(moderate) showers of rain" are designated by the identifier...

- a) +RA
- b) SHRA
- c) +TSRA
- d) TS

05. Given: QTE: 203° VAR: 10° E The QDR equals...

- a) 023°.
- b) 213°
- c) 193°.
- d) 013°.

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06. 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.

07. A light aircraft intends to land behind a commercial airliner belonging to wake turbulence category "medium" or "heavy" on a long runway. How can the wake turbulence of the commercial aircraft be avoided?

- a) By making a steep approach and a long landing, touching down behind the touchdown point of the airliner's nose gear
- b) By making a steep approach and a very short landing. The light aircraft should be able to stop before reaching the airliner's touchdown point
- c) By making a shallow approach and a long landing, touching down behind the touchdown point of the airliner's nose gear
- d) By making a shallow approach and a very short landing. The light aircraft should be able to stop before reaching the airliner's touchdown point

08. During a stall, the lift...

- a) During a stall, the lift...
- b) Increases and drag decreases.
- c) Increases and drag increases.
- d) Decreases and drag decreases.

09. 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

10. QFE is the...

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

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11. The speed V_y is defined as...

- a) Best speed of climb.
- b) Best angle of climb.
- c) Best distance of climb.
- d) Best distance of climb.

12. The angle (α) shown in the figure is referred to as... See figure (PFA-003) DoF: direction of airflow (1,00 P.) Siehe Anlage 3

- a) Lift angle.
- b) Angle of incidence
- c) Angle of inclination
- d) Angle of attack.

13. Which transponder code indicates a radio failure?

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

14. 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

15. 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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16. 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

17. 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

18. Winds blowing uphill are defined as...

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

19. 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

20. 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

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21. Which phenomenon may be expected at point 2 of the microburst? See figure (OPR-001) (1,00 P.) Siehe Anlage 1

- a) Constant rate of descent
- b) Decrease of descent rate
- c) Increase of airspeed
- d) Decrease of climb rate

22. 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 humidity

23. 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

24. Which maximum rate of climb can the aircraft reach at 9000 ft pressure altitude and OAT 12° C? See annex (PFP-011) (1,00 P.) Siehe Anlage 11

- a) 200 ft/min
- b) 250 ft/min
- c) 350 ft/min
- d) 300 ft/min

25. What chart shows areas of precipitation?

- a) GAFOR
- b) Wind chart
- c) Satellite picture
- d) Radar picture

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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. The density of AVGAS 100LL at 15° C is...

- a) 0.68 kg/l.
- b) 1.0 kg/l.
- c) 0.82 kg/l.
- d) 0.72 kg/l

28. The shoreline effect is greatest with radio wave propagation...

- a) At a right angle to the coast; aircraft below 6000 ft
- b) At an acute angle to the coast; aircraft above 6000 ft.
- c) At an acute angle to the coast; aircraft below 6000 ft.
- d) At a right angle to the coast; aircraft above 6000 ft.

29. What should be the first action in case of a cable fire during a flight?

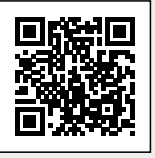
- a) Close the fuel valve
- b) Open the windows
- c) Turn off the master switch
- d) Open cabin ventiation

30. 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

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31. For what approximate time period can the short-time memory store information?

- a) 35 to 50 seconds
- b) 30 to 40 seconds
- c) 3 to 7 seconds
- d) 10 to 20 seconds

32. The speed V_x means...

- a) That a given altitude is reached within minimum distance
- b) That a given altitude is reached within minimum flight time
- c) Maximum altitude gain per 10 % power
- d) That a given altitude is reached with minimum fuel consumption

33. 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

34. During a flight at FL 80, the altimeter setting has to be...

- a) 1030.25 hPa.
- b) 1013.25 hPa.
- c) Local QFE.
- d) Local QNH.

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

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

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36. What is the function of the horizontal tail (among other things)?

- a) To stabilise the aeroplane around the lateral axis
- b) To initiate a curve around the vertical axis
- c) To stabilise the aeroplane around the longitudinal axis
- d) To stabilise the aeroplane around the vertical axis

37. 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.

38. The position of the center of gravity (including fuel) equals... See figure(PFP-053e) (1,00 P.) Siehe Anlage 2

- a) 37.1 cm
- b) 0.401 m
- c) 37.3 cm
- d) 0.403 m.

39. 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

40. A pilot receives a QDR of 315° from the VDF ground station. Where is the aircraft located in relation to the ground station?

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

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41. Being intercepted by a military aircraft at daytime, what is the meaning of the following signal: A sudden heading change of 90 degrees or more and a pull-up of the aircraft without crossing the track of the intercepted aircraft?

- a) You are entering a restricted area, leave the airspace immediately
- b) You may continue your flight
- c) Follow me, i will bring you to the next suitable airfield
- d) Prepare for a safety landing, you have entered a prohibited area

42. 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

43. 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

44. 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.

45. The pilot wants to proceed directly to the beacon. The wind is calm. The pilot should follow a QDM of... See figure (NAV-019) (1,00 P.) Siehe Anlage 6

- a) 080°.
- b) 200°.
- c) 260°.
- d) 230°.

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46. What needs to be observed in conjunction with overheated brakes?

- a) The affected brakes need to be cooled down with halon
- b) The affected tyres may burst in axial direction
- c) The affected tyres may burst in radial direction or direction of rotation
- d) The wheel fairing shall be taken off to increase the cooldown

47. What is the take-off distance at 705 kg take-off mass, OAT 20° C, QNH 1013 hPa at an elevation of 3500 ft with 5 kt tailwind? See annex (PFP-009) (1,00 P.) Siehe Anlage 9

- a) 720 m
- b) 880 m
- c) 790 m
- d) 820 m

48. 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

49. In straight and level flight with constant performance of the engine, the angle of attack at the wing is...

- a) Greater than in a climb.
- b) Greater than at take-off
- c) Smaller than in a descent
- d) Smaller than in a climb

50. 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

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51. 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

52. 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

53. Which answer is correct with regard to separation in airspace "E"?

- a) IFR traffic is separated only from VFR traffic
- b) VFR traffic is separated from VFR and IFR traffic
- c) VFR traffic is separated only from IFR traffic
- d) VFR traffic is not separated from any other traffic

54. Two aircraft of the same type, same gross weight and same flap configuration fly with different speeds and altitude. Which aircraft will cause more wake turbulence?

- a) The aircraft flying at a higher altitude
- b) The aircraft flying at a lower altitude
- c) The aircraft flying at higher speed.
- d) The aircraft flying at lower speed.

55. The result of a rear C.G. position is...

- a) An increased fuel consumption.
- b) A decrease of range.
- c) A decrease of stability.
- d) An increased stall speed.

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56. In what different ways can a risk be handled appropriately?

- a) Extrude, avoid, palliate, transfer
- b) Ignore, accept, transfer, extrude
- c) Avoid, reduce, transfer, accept
- d) Avoid, ignore, palliate, reduce

57. The total weight of an aeroplane is acting vertically through the...

- a) Stagnation point.
- b) Neutral point.
- c) Center of pressure.
- d) Center of gravity.

58. Piston engines of helicopters have...

- a) One magneto ignition system
- b) One electrical ignition system.
- c) Two coupled ignition systems.
- d) Two independent ignition systems

59. 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

60. 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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61. Which gas is most dangerous during an engine fire?

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

62. The symbol labeled (1) as shown in the picture is a / an... See figure (MET-005) (1,00 P.) Siehe Anlage 4

- a) Front aloft.
- b) Occlusion
- c) Warm front
- d) Cold front.

63. Which cylinder arrangement is commonly used on small aircrafts and motor gliders?

- a) Horizontally opposed engine
- b) Radial engine
- c) In-line engine
- d) V-type engine

64. What does a readability of 1 indicate?

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

65. A horizontal situation indicator (HSI) combines the information provided by...

- a) The directional gyro and the flight director.
- b) The rate gyro and the slip indicator
- c) The directional gyro and the VHF navigation receiver.
- d) The attitude indicator and the flight director.

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66. 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

67. The circumference of the Earth at the equator is approximately... See figure (NAV-002) (1,00 P.) Siehe Anlage 1

- a) 10800 km.
- b) 40000 NM.
- c) 12800 km
- d) 21600 NM.

68. What are the air masses that Central Europe is mainly influenced by?

- a) Arctic and polar cold air
- b) Polar cold air and tropical warm air
- c) Equatorial and tropical warm air
- d) Tropical and arctic cold air

69. When transmitter and receiver are moving away from each other...

- a) The perceived frequency increases
- b) The perceived frequency decreases.
- c) The frequency varies, but the wavelength remains constant
- d) The perceived frequency equals the transmitted frequency.

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

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

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