

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

NOME ALLIEVO:

DATA & ORA:

01. How does a balance tab move in relation to the flight control surface that it is coupled with?

- a) In the opposite direction
- b) At an angle of 90°
- c) At an angle of 45°
- d) In the same direction

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

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

03. The Caution Area is marked on an airspeed indicator by what color?

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

04. 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

05. An emergency landing is a landing...

- a) Conducted without power from the engine.
- b) Conducted in an attempt to keep up safety regarding an aircraft and its occupants.
- c) Conducted with the flaps retracted.
- d) Conducted in response to circumstances forcing the aircraft to land

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

06. 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

07. 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.

08. What does the abbreviation "FIS" stand for?

- a) Flashing information service
- b) Flight information system
- c) Flashing information system
- d) Flight information service

09. 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

10. Which phrase does a pilot use when he / she wants to check the readability of his / her transmission?

- a) What is the communication like?
- b) How do you read?
- c) Request readability
- d) You read me five

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

11. Which dangerous attitudes are often combined?

- a) Macho and invulnerability
- b) Impulsivity and carefulness
- c) Invulnerability and self-abandonment
- d) Self-abandonment and macho

12. What is the meaning of the abbreviation "SERA"?

- a) Selective Radar Altimeter
- b) Standardized European Rules of the Air
- c) Specialized Radar Approach
- d) Standard European Routes of the Air

13. 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

14. 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.

15. Which of the stated materials shows the highest strength?

- a) Carbon fiber re-inforced plastic
- b) Aluminium
- c) Wood
- d) Magnesium

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

16. 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

17. The angle of descent is defined as...

- a) The ratio between the change in height and the horizontal distance travelled within the same time, expressed in percent [%]
- b) The angle between a horizontal plane and the actual flight path, expressed in degrees [°].
- c) The ratio between the change in height and the horizontal distance distance travelled within the same time, expressed in degrees [°].
- d) The angle between a horizontal plane and the actual flight path, expressed in percent [%].

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

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

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

20. Extensive high pressure areas can be found throughout the year ...

- a) In areeas showing extensive lifting processes
- b) In mid latitudes along the polar front
- c) Over oceanic areas at latitudes around 30°N/S.
- d) In tropical areas, close to the equator

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

21. 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

22. 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

23. What is the minimum flight visibility in airspace "E" for an aircraft operating under VFR at FL75?

- a) 8000 m
- b) 1500 m
- c) 3000 m
- d) 5000 m

24. After a precautionary landing the brakes and wheels are very hot. In which way should the pilot approach them?

- a) From the right or left side
- b) At an angle of 45°
- c) From the front or back side
- d) From the front, right or left side

25. When increasing the airflow speed by a factor of 2 while keeping all other parameters constant, how does the parasite drag change approximately?

- a) It decreases by a factor of 2
- b) It increases by a factor of 2
- c) It decreases by a factor of 4
- d) It increases by a factor of 4

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

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

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

27. The position of the the center of pressure at a positively shaped profile...

- a) Moves to the leading edge while the angle of attack becomes smaller.
- b) Is located at approximately 25% of the chord, measured from the leading edge
- c) Moves to the trailing edge while the angle of attack becomes smaller.
- d) Does not move since it is independent of the angle of attack.

28. 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

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

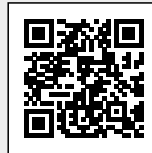
- a) IFR traffic is separated only from VFR traffic
- b) VFR traffic is separated from VFR and IFR traffic
- c) VFR traffic is separated only from IFR traffic
- d) VFR traffic is not separated from any other traffic

30. Which weather phenomenon is typically associated with wind shear?

- a) Fog
- b) Invernal warm front.
- c) Thunderstorms
- d) Stable high pressure areas.

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

31. 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

32. A take-off with flaps in take-off position causes...

- a) An increased rate of climb
- b) An increased acceleration
- c) A shortening of the take-off run.
- d) A decrease in drag.

33. Which factor can lead to human error?

- a) Double check of relevant actions
- b) Proper use of checklists
- c) To be doubtful if something looks unclear or ambiguous
- d) The bias to see what we expect to see

34. What is shown on the printed sign? See figure (ALW-019) Siehe Anlage 1

- a) Point A on a taxiway
- b) Part A of the runway
- c) Taxiway A
- d) Parking position A

35. 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

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

36. In a co-ordinated turn, how is the relation between the load factor (n) and the stall speed (V_s)?

- a) N is smaller than 1, V_s is greater than in straight and level flight
- b) N is greater than 1, V_s is greater than in straight and level flight.
- c) N is smaller than 1, V_s is smaller than in straight and level flight.
- d) N is greater than 1, V_s is smaller than in straight and level flight

37. Which constructional elements give the wing its profile shape?

- a) Ribs
- b) Planking
- c) Spar
- d) Tip

38. What is the correct phrase to begin a blind transmission?

- a) Blind
- b) Transmitting blind
- c) No reception
- d) Listen

39. Which of the listed wing shapes has the lowest induced drag?

- a) Elliptical shape
- b) Double trapezoidal shape
- c) Rectangular shape
- d) Trapezoidal shape

40. Air descending behind a mountain range is defined as...

- a) Katabatic wind
- b) Convergent wind.
- c) Anabatic wind.
- d) Divergent wind.

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

41. 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

42. After lift-off, a much stronger than expected airspeed rise is experienced during the initial climb phase. What may be expected if the aeroplane entered a microburst?

- a) An increased climb rate and decreased airspeed
- b) An increased climb rate and airspeed
- c) A decreased climb rate and airspeed
- d) A decreased climb rate and increased airspeed

43. Which of the following states the working principle of an airspeed indicator?

- a) Total air pressure is measured and compared against static air pressure.
- b) Total air pressure is measured by the static ports and converted into a speed indication by the airspeed indicator
- c) Dynamic air pressure is measured by the Pitot tube and converted into a speed indication by the airspeed indicator
- d) Static air pressure is measured and compared against a vacuum

44. "Foehn" conditions usually develop with...

- a) Instability, widespread air blown against a mountain ridge.
- b) Stability, widespread air blown against a mountain ridge.
- c) Instability, high pressure area with calm wind.
- d) Stability, high pressure area with calm wind.

45. May an engine, which previously was on fire, be restarted?

- a) No, the risk of a reignition of the fire would be too high
- b) Yes, if the aircraft is flying at a safe altitude
- c) Yes, but only on the ground for the purpose of taxiing
- d) Yes, but only if the cause of the fire was a carburettor fire during engine start

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

46. What condition may prevent the formation of "radiation fog"?

- a) Overcast cloud cover
- b) Calm wind
- c) Low spread
- d) Clear night, no clouds

47. Which conditions are likely for the formation of advection fog?

- a) Cold, humid air moves over a warm ocean
- b) Warm, humid air moves over a cold surface
- c) Warm, humid air cools during a cloudy night
- d) Humidity evaporates from warm, humid ground into cold air

48. Which type of cloud is associated with prolonged rain?

- a) Cumulonimbus
- b) Cirrostratus
- c) Nimbostratus
- d) Altocumulus

49. Which statement regarding the "constant-speed propeller" is correct?

- a) The propeller keeps the airspeed constant
- b) The pitch of the propeller rises with higher speeds
- c) The RPM decreases with lower speeds
- d) The set RPM is kept constant by the motor power (MAP)

50. 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

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

51. With Central European Summer Time (CEST) given as UTC+2, what UTC time corresponds to 1600 CEST?

- a) 1600 UTC.
- b) 1500 UTC.
- c) 1700 UTC.
- d) 1400 UTC.

52. 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

53. 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

54. How should a landing on a contaminated runway be conducted if it proves to be inevitable?

- a) Approach with the minimum crosswind component possible, use minimum flaps, touch down softly with positive pitch and minimum speed, do not apply brakes
- b) Approach with the minimum crosswind component possible, use maximum flaps, touch down with negative pitch and minimum speed, brake carefully
- c) Approach with the minimum crosswind component possible, use maximum flaps, touch down firmly with minimum speed, brake carefully
- d) Approach with the minimum crosswind component possible, use minimum flaps, touch down softly with minimum speed, do not apply brakes

55. Which type of ice forms by large, supercooled droplets hitting the front surfaces of an aircraft?

- a) Hoar frost
- b) Clear ice
- c) Rime ice
- d) Mixed ice

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

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

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

57. A gyro which is rotating in space responds to forces being applied to it by an evasive movement...

- a) At an angle of 45° to the force being applied.
- b) In a northern direction.
- c) At an angle of 90° to the force being applied.
- d) At an angle of 180° to the force being applied

58. 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.

59. Quasi-optical waves travel...

- a) Along the surface of the earth
- b) Through the air directly from the transmitter to the receiver.
- c) Through the air and are influenced (e.g. reflected) by the ionosphere
- d) Along the surface of the earth, but are absorbed by the sea.

60. Which of the following is NOT a risk factor for hypoxia?

- a) Smoking
- b) Menstruation
- c) Blood donation
- d) Diving

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

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

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

62. 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

63. (For this questions, use attachment or CAP697 SEP1 Fig. 2.2 Table 2.2.3) Planning a flight from EDWH (Oldenburg Hatten) to EDWF (Leer Papenburg), the following conditions apply: Cruise level = FL 65 Temperature = ISA+20 Cruise weight = 3400 lbs Power setting = 23.0 in. HG @ 2300 RPM What Indicated Airspeed (IAS) and Fuel Flow (FF) can be expected? (2,00 P.) Siehe Anlage 21

- a) IAS = 142 kt FF = 11.5 GPH
- b) IAS = 145 kt FF = 11.9 GPH
- c) IAS = 158kt FF = 11.5 GPH
- d) IAS = 150 kt FF = 12.3 GPH

64. Pressure compensation on an wing occurs at the...

- a) Wing roots
- b) Wing tips.
- c) Trailing edge
- d) Leading edge.

65. Wake turbulence is caused by...

- a) Wind shear at the wingtip of an aerofoil.
- b) Jet blast behind a turbine engine
- c) Turbulence at the downwind side of a mountain range
- d) Pressure compensation at the wingtip of an aerofoil.

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

66. What mass equals 102 litres of Avgas 100LL?

- a) 142 lbs
- b) 74 lbs
- c) 142 kg
- d) 74 kg

67. 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

68. The altimeter can be checked on the ground by setting...

- a) QFE and comparing the indication with the airfield elevation.
- b) QNH and comparing the indication with the airfield elevation.
- c) QNE and checking that the indication shows zero on the ground.
- d) QFF and comparing the indication with the airfield elevation.

69. 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

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

70. At which airspeed do you climb to flight level (FL) 75 after a departure from an airfield which is located at a pressure altitude of 3000 ft with an initial mass of 3000 lbs? OAT at airfield: 25° C OAT in FL 75: 0° C See annex (PFP-023) (1,00 P.) Siehe Anlage 14

- a) 90 kt
- b) 120 kt
- c) 110 kt
- d) 100 kt

Simulazione di Esame

Principle of Flight - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

Schema Risposte

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

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