

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

NOME ALLIEVO:

DATA & ORA:

01. Which answer is correct concerning stress?

- a) Stress can occur if there seems to be no solution for a given problem
- b) Training and experience have no influence on the occurrence of stress
- c) Stress and its different symptoms are irrelevant for flight safety
- d) Everybody reacts to stress in the same manner

02. When transmitter and receiver are moving towards each other...

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

03. Which statement about lift and angle of attack is correct?

- a) Too large angles of attack can lead to an exponential increase in lift
- b) Increasing the angle of attack results in less lift being generated by the aerofoil
- c) Increasing the angle of attack too far may result in a loss of lift and an airflow separation
- d) Decreasing the angle of attack results in more drag being generated by the aerofoil

04. What is the meaning of the illustrated ground signal as shown in the signal area of an aerodrome? See figure (ALW-012) Siehe Anlage 4

- a) Caution, manoeuvring area is poor
- b) Prohibition on landing for a longer period
- c) After take-off and before landing all turns have to be made to the right
- d) Ground movement restricted to hard surfaces

05. 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

QuizVds.it offre risorse per lo studio di VDS, PPL(A), PPL(H), Droni, Fonia aeronautica, Parapendio e Deltaplano.

Visita il sito e scarica l'App per Android o iOS!

QuizVds.it

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

06. 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

07. The directional information "12 o'clock" is correctly transmitted as...

- a) One two.
- b) One two o'clock
- c) One two hundred.
- d) Twelve o'clock.

08. 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

09. What leads to a decreased stall speed V_s (IAS)?

- a) Lower altitude
- b) Lower density
- c) Higher load factor
- d) Decreasing weight

10. 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

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

11. 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

12. An altitude of 4500 ft is transmitted as...

- a) Four thousand five hundred.
- b) Four five thousand.
- c) Four thousand five zero zero.
- d) Four five zero zero.

13. 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

14. What does the octane rating or fuel grade describe?

- a) Anti-knock rating
- b) Flame front speed
- c) Ignition timing
- d) Combustion temperature

15. 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

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

16. (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

17. Leaving a control frequency (except when reaching the final parking position)...

- a) Is not mandatory to be reported
- b) Must be approved twice
- c) Must be approved.
- d) Must be reported.

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

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

19. What kind of drag is NOT part of the parasite drag?

- a) Interference drag
- b) Skin-friction drag
- c) Induced drag
- d) Form drag

20. 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

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

21. What information is provided in the part "AD" of the AIP?

- a) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces
- b) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts
- c) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees
- d) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods

22. Which air traffic service is responsible for the safe conduct of flights?

- a) ALR (alerting service)
- b) FIS (flight information service)
- c) ATC (air traffic control)
- d) AIS (aeronautical information service)

23. 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

24. 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

25. 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

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

26. "Longitudinal stability" is referred to as stability around which axis?

- a) Propeller axis
- b) Vertical axis
- c) Longitudinal axis
- d) Lateral axis

27. 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

28. Radio waves within the LF and MF range (e.g. NDB) travel as...

- a) Sky wave.
- b) Sky wave and as ground / surface wave
- c) Ground / surface wave.
- d) Space wave (quasi-optical).

29. 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

30. 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

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

31. What needs to be considered if permissible limitations were exceeded?

- a) The helicopter must be inspected by the pilot in command and if no defect is found, no appropriate entry in the aircraft technical log is necessary
- b) The helicopter must be inspected by at least two pilots licensed on the type, one of whom must be the pilot in command
- c) The helicopter must be inspected by a qualified engineer before the next flight
- d) The helicopter must be subjected to a duplicate inspected by two engineers

32. During cruise flight with constant power setting, an aircraft shows a permanent tendency to raise the nose. How can this tendency be eliminated?

- a) By deflecting the elevator trim tab upwards
- b) By shifting the center of gravity backwards
- c) By elevator deflection upwards
- d) By deflecting the elevator trim tab downwards

33. Which weather chart shows the actual air pressure as in MSL along with pressure centers and fronts?

- a) Hypsometric chart
- b) Surface weather chart
- c) Prognostic chart
- d) Wind chart

34. 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.

35. Which answer states a risk factor for diabetes?

- a) Overweight
- b) Smoking
- c) Sleep deficiency
- d) Alcohol consumption

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

36. Which equipment is needed on board of an aircraft to receive signals from a non directional beacon (NDB)?

- a) Course deviation indicator (CDI)
- b) Horizontal situation indicator (HSI)
- c) Automatic direction finder (ADF)
- d) Secondary surveillance radar (SSR)

37. 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

38. 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

39. In comparison to the true airspeed in still air conditions, the TAS in a strong tailwind will be...

- a) The same for maximum range
- b) Significantly lower for maximum endurance
- c) Slightly lower for maximum range
- d) Slightly higher for maximum endurance

40. At which altitude is the atmospheric pressure approximately half the MSL value (1013 hPa)?

- a) 18000 ft
- b) 5000 ft
- c) 10000 ft
- d) 22000 ft

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

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

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

42. What information can be found in the ATIS, but not in a METAR?

- a) Information about current weather, for example types of precipitation
- b) Operational information such as runway in use and transition level
- c) Information about mean wind speeds, maximum speeds in gusts if applicable
- d) Approach information, such as ground visibility and cloud base

43. For the purpose of a flight preparation the pilot calculates a total take-off mass of 775 kg and a total moment of 700 mmkg. Which cross marks the center of gravity (CG)? See annex (PFP-005) (1,00 P.) Siehe Anlage 5

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

44. 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.

45. 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

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

46. Which of the human senses is most influenced by hypoxia?

- a) The olfactory perception (smell)
- b) The tactile perception (sense of touch)
- c) The auditory perception (hearing)
- d) The visual perception (vision)

47. What does the abbreviation "FIR" stand for?

- a) Flight integrity receiver
- b) Flow information radar
- c) Flight information region
- d) Flow integrity required

48. What process results in the formation of "advection fog"?

- a) Cold, moist air is being moved across warm ground areas
- b) Warm, moist air is moved across cold ground areas
- c) Cold, moist air mixes with warm, moist air
- d) Prolonged radiation during nights clear of clouds

49. Regularity messages are messages...

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

50. 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.

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

51. 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.

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. Which instantaneous information can be obtained from ground radar equipment?

- a) Distance and direction
- b) Airspeed (TAS) and distance
- c) Airspeed (TAS) and heading
- d) Direction and airspeed (TAS)

54. What extinguishing agent is the least suitable for an aircraft fire?

- a) Powder
- b) Halon
- c) Water
- d) Foam

55. Bernoulli's equation for frictionless, incompressible gases states that...

- a) Static pressure = total pressure + dynamic pressure
- b) Total pressure = dynamic pressure - static pressure
- c) Dynamic pressure = total pressure + static pressure.
- d) Total pressure = dynamic pressure + static pressure.

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

56. 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

57. 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

58. Which items should a passenger briefing in case of an imminent emergency landing include?

- a) How to work the aircraft radio, emergency transponder squawk, telephone number of the competent search and rescue (SAR) center
- b) Blood type of the other aircraft occupants, location of the first-aid kit
- c) Nature of the emergency, intentions, safety position, evacuation routes, actions after landing
- d) How to read an emergency checklist, how to cut the engine, telephone number of the home airport

59. 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

60. The aerodynamic rudder balance...

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

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

61. The saturated adiabatic lapse rate is...

- a) Lower than the dry adiabatic lapse rate
- b) Proportional to the dry adiabatic lapse rate
- c) Higher than the dry adiabatic lapse rate.
- d) Equal to the dry adiabatic lapse rate.

62. In flight, a little smoke emerges from behind the instrument panel. An electrical fire is suspected. Which action, with respect to the pilot's operating manual, should be taken?

- a) Turn off the heat
- b) Shut down the engine
- c) Turn off the master switch
- d) Use the fire extinguisher

63. What is the correct phrase with respect to wake turbulence to indicate that a light aircraft is following an aircraft of a higher wake turbulence category?

- a) Danger jet blast
- b) Be careful wake winds
- c) Attention propwash
- d) Caution wake turbulence

64. Which is the maximum rate of climb for the aircraft at 6500 ft pressure altitude and an OAT of 0° C? See annex (PFP-011) (1,00 P.) Siehe Anlage 11

- a) 480 ft / min
- b) 400 ft / min
- c) 520 ft / min
- d) 800 ft / min

65. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL125?

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

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

66. Which abbreviation is used for the term "obstacle"?

- a) OBTC
- b) OBST
- c) OST
- d) OBS

67. A technical fault requires an emergency off-field landing. Which steps, with respect to the pilot's operating handbook, are necessary?

- a) Inform air traffic control and request technical support, check the pilot's operating handbook for a reference on the matter and execute an emergency landing
- b) Reduce speed and configure the aircraft for landing in an attempt to gain time, declare an emergency, complete the applicable emergency procedure and execute an emergency landing.
- c) Locate a suitable landing area, plan the approach, complete the applicable emergency procedure, declare an emergency, start and concentrate on the approach in due time.
- d) Declare an emergency, complete the applicable emergency procedure, cover as much distance towards the airport as possible to be closer to the rescue forces.

68. What kind of hydraulic oil is used in aeroplane systems today?

- a) Mineral oil
- b) Vegetable oil
- c) Bio-oil
- d) Synthetic oil

69. 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

Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



QuizVds.it

70. 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.

Simulazione di Esame

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