

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. 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

02. The compass error caused by the aircraft's magnetic field is called...

- a) Variation
- b) Declination
- c) Inclination
- d) Deviation

03. 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.

04. Stability around which axis is mainly influenced by the center of gravity's longitudinal position?

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

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05. How is the nose or tail wheel usually controlled on small aircraft and motor gliders?

- a) By the steering wheel
- b) By the control column
- c) By weight movement
- d) By the pedals

06. What is an appropriate reaction when a passenger during cruise flight suddenly feels uncomfortable?

- a) Adjust cabin temperature and prevent excessive bank
- b) Give additional oxygen and avoid low load factors
- c) Avoid conversation and choose a higher airspeed
- d) Switch on the heater blower and provide thermal blankets

07. 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.

08. The term "datum" with regard to a mass and balance calculation defines...

- a) The point on the lateral axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- b) The point on the vertical axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- c) The point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- d) The distance from the reference plane to the center of gravity of an aircraft.

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

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

10. 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 [%].

11. 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.

12. Stabilization around the lateral axis during cruise is achieved by the...

- a) Horizontal stabilizer.
- b) Ailerons
- c) Wing flaps.
- d) Vertical rudder.

13. Which Q-code is used for the true bearing from the station?

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

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14. Distress messages are messages...

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

15. What is meant by "ground effect"?

- a) Increase of lift and increase of induced drag close to the ground
- b) Decrease of lift and increase of induced drag close to the ground
- c) Decrease of lift and decrease of induced drag close to the ground
- d) Increase of lift and decrease of induced drag close to the ground

16. Winds blowing uphill are defined as...

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

17. 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.

18. Which air traffic services can be expected within an FIR (flight information region)?

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

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19. Which transponder code has to be set unrequested during an emergency?

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

20. Which area is suitable for an off-field landing?

- a) Harvested cornfield
- b) Glade with long dry grass
- c) Plowed field
- d) Sports area in a village

21. What are the effects of wet grass on the take-off and landing distance?

- a) Decrease of the take-off distance and increase of the landing distance
- b) Increase of the take-off distance and increase of the landing distance
- c) Decrease of the take-off distance and decrease of the landing distance
- d) Increase of the take-off distance and decrease of the landing distance

22. The dry adiabatic lapse rate has a value of...

- a) 1,0° C / 100 m.
- b) 2° / 1000 ft.
- c) 0,6° C / 100 m.
- d) 0,65° C / 100 m.

23. What is the difference in time when the sun moves 20° of longitude?

- a) 1:20 h
- b) 0:20 h
- c) 0:40 h
- d) 1:00 h

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24. What is the correct way of using the aircraft call sign at first contact?

- a) Using the first two characters only
- b) Using the last two characters only
- c) Using the first three characters only
- d) Using all characters

25. The distance between the center of gravity and the datum is called...

- a) Span width.
- b) Balance arm.
- c) Lever
- d) Torque

26. The term "ceiling" is defined as the...

- a) Altitude of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.
- b) Height of the base of the lowest layer of clouds covering more than half of the sky below 10000 ft.
- c) Height of the base of the highest layer of clouds covering more than half of the sky below 20000 ft.
- d) Height of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.

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

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

28. The "swiss cheese model" can be used to explain the...

- a) Error chain.
- b) Procedure for an emergency landing.
- c) Optimal problem solution.
- d) State of readiness of a pilot.

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29. What does the abbreviation "QDR" stand for?

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

30. With regard to flaps, which of the following options provides a lift-increasing effect?

- a) With regard to flaps, which of the following options provides a lift-increasing effect?
- b) Increasing the aerofoil camber
- c) Decreasing the form drag
- d) Lowering the induced drag

31. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 270° to a heading of 360°. At approximately which indication of the magnetic compass should the turn be terminated?

- a) 330°
- b) 360°
- c) 270°
- d) 030°

32. Wake turbulences develop during take-off just as the aeroplane...

- a) Reaches an altitude of 15 ft.
- b) Lifts off with the main gear.
- c) Lifts off with the front gear.
- d) Accelerates

33. What is the correct way of acknowledging the instruction "Call Hamburg Tower on 121.275"?

- a) Call 121.275
- b) Call tower
- c) 125.35.00
- d) Call tower on 121.275

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34. 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

35. In which way is a SEP (land) rating renewed if you do not meet the required flight time?

- a) A proficiency check with an examiner
- b) According to the flight experience there have to be several training flights under supervision of an ATO
- c) The ATO can renew the rating after a training flight with a flight instructor
- d) The required flight experience has to be accumulated under supervision of a flight instructor

36. Which of the following options states a correct position report?

- a) DEABC reaching "N"
- b) DEABC over "N" in FL 2500 ft
- c) DEABC, "N", 2500 ft
- d) DEABC over "N" at 35

37. The laminar boundary layer on the aerofoil is located between...

- a) The transition point and the separation point.
- b) The stagnation point and the transition point.
- c) The transition point and the center of pressure
- d) The stagnation point and the center of pressure

38. A heading of 285 degrees is correctly transmitted as...

- a) Two eight five.
- b) Two eight five hundred.
- c) Two hundred eight five.
- d) Two hundred eighty-five.

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39. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at 5000 ft MSL?

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

40. What action should be taken when entering a windshear? 1. Reduce speed 2. Retract gear and flaps 3. Maintain current configuration 4. Adjust thrust

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

41. What is the correct way of acknowledging the instruction "DZF after lift-off climb straight ahead until 2500 feet before turning right heading 220 degrees, wind 090 degrees, 5 knots, runway 12, cleared for take-off"?

- a) DZF after lift-off climb straight ahead 2500 feet, wilco, heading 220 degrees, 090 degrees, 5 knots, cleared for take-off
- b) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, runway 12, cleared for take-off
- c) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots
- d) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots, cleared for take-off

42. What is the correct way to transmit the call sign OE-JVK?

- a) Omega Echo Jankee Victor Kilo
- b) Oscar Echo Jankee Victor Kilogramm
- c) Oscar Echo Juliett Victor Kilo
- d) Oscar Echo Juliett Victor Kilo

43. After take-off an aeroplane gets into a wind shear with decreasing headwind. As a result...

- a) The aeroplane flies above the estimated climb path
- b) The true airspeed (TAS) will increase
- c) The ground speed (GS) will decrease
- d) The aeroplane flies below the estimated climb path.

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44. What pressure pattern may result from cold-air inflow in high tropospheric layers?

- a) Formation of a low in the upper troposphere
- b) Formation of a high in the upper troposphere
- c) Formation of a large ground low
- d) Alternating pressure

45. The barometric altimeter with QNH setting indicates...

- a) Height above standard pressure 1013.25 hPa
- b) Height above the pressure level at airfield elevation
- c) True altitude above MSL.
- d) Height above MSL.

46. 5500 m equal...

- a) 7500 ft.
- b) 18000 ft
- c) 10000 ft.
- d) 30000 ft.

47. Which answer completes the flight plan (marked cells)? See annex (NAV-014) (3,00 P.) Siehe Anlage 4

- a) TH: 185°. MH: 185°. MC: 180°
- b) TH: 185°. MH: 184°. MC: 178°
- c) TH: 173°. MH: 174°. MC: 178°.
- d) TH: 173°. MH: 184°. MC: 178°

48. Cylinder head temperature indication relates to...

- a) All Cylinders.
- b) A random cylinder
- c) The critical cylinder
- d) The average of all cylinders.

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49. What type of fog emerges if humid and almost saturated air, is forced to rise upslope of hills or shallow mountains by the prevailing wind?

- a) Orographic fog
- b) Steaming fog
- c) Radiation fog
- d) Advection fog

50. What is the direct influence by switching on the carburettor heating on fixed propeller engines during engine run-up?

- a) RPM decreases
- b) Angle of attack decreases
- c) Angle of attack increases
- d) RPM increaes

51. The trim is used to...

- a) Increase adverse yaw.
- b) Move the centre of gravity.
- c) Adapt the control force.
- d) Lock control elements.

52. Which effect does a decreasing airspeed have on the induced drag during a horizontal and stable cruise flight?

- a) The induced drag will increase
- b) The induced drag will collapse
- c) The induced drag will remain constant
- d) The induced drag will slightly decrease

53. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +11°C. The QNH altitude is 6500 ft. The true altitude equals...

- a) 6500 ft.
- b) 7000 ft.
- c) 6750 ft.
- d) 6250 ft.

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54. With other factors remaining constant, decreasing temperature results in...

- a) Decreasing spread and decreasing relative humidity.
- b) Increasing spread and decreasing relative humidity.
- c) Increasing spread and increasing relative humidity.
- d) Decreasing spread and increasing relative humidity.

55. 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.

56. During a VFR flight the remaining usable fuel at a checkpoint is 80 USG. Reserve fuel is 20 USG, remaining flight time according to flight plan is 2h 20min. What is the highest acceptable fuel flow (FF) for the rest of the trip?

- a) FF = 8.6 USG/h
- b) FF = 42.9 USG/h
- c) FF = 25.7 USG/h
- d) FF = 34.3 USG/h

57. 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

58. Which would be the correct reaction when hydroplaning is suspected upon landing?

- a) Add power and use flaps and spoilers to brake aerodynamically
- b) Apply maximum braking to reduce aircraft speed to less than hydroplaning speed, then continue normal ground roll
- c) Cross rudder and aileron controls in order to use the aircraft fuselage to brake aerodynamically
- d) If all wheels are in motion, brake moderately. Maintain directional control by aerodynamic means

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59. 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.

60. 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

61. What devices can be affected by a failure of the electrical system in a helicopter?

- a) Fuel quantity indication, radio equipment and altimeter
- b) Radio equipment, navigation equipment and magnetic compass
- c) Airspeed indicator, altimeter and artificial horizon
- d) Radio equipment, navigation equipment and gyros

62. The ideal level of arousal is at which point in the diagram? See figure (HPL- 002) P = Performance A = Arousal / Stress Siehe Anlage 1

- a) Point A
- b) Point D
- c) Point C
- d) Point B

63. 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

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64. 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

65. 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.

66. Which approximate, geometrical form describes the shape of the Earth best for navigation systems?

- a) Sphere of ecliptical shape
- b) Ellipsoid
- c) Perfect sphere
- d) Flat plate

67. Using primary ground radar, the direction of the aeroplane in relation to the antenna is determined by...

- a) The pulse pair interval
- b) The orientation of the antenna.
- c) The frequency shift of the received pulse
- d) Time measurement.

68. Which statement is correct with regard to the term "taxi holding point"?

- a) A taxi holding point is an area where the aircraft must stop unless further permission to proceed is given
- b) A taxi holding point is only to be observed for IFR traffic if instrument weather conditions are prevailing
- c) A taxi holding point is the point at which the aircraft must stop unless further permission to proceed is given
- d) A taxi holding point is designed to indicate the beginning of the safety area and may be crossed when a taxi clearance is given

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69. 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

70. The bank angle of a 2-minutes circle depends on the...

- a) CAS
- b) IAS
- c) Ground speed
- d) TAS

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Schema Risposte

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

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