

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. 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

02. The Pitot / static system is required to...

- a) Prevent potential static buildup on the aircraft.
- b) Correct the reading of the airspeed indicator to zero when the aircraft is static on the ground.
- c) Measure total and static air pressure.
- d) Prevent icing of the Pitot tube.

03. Which dangerous attitudes are often combined?

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

04. What is the principle of a Fowler flap?

- a) A profile-like flap is extended from the trailing edge of the wing
- b) A flap from the rear bottom side of the wing is folded down
- c) At high angles of attack a part of the leading edge lifts
- d) At high angles of attack a part of the leading edge lifts

05. 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

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06. A wind shear is...

- a) A slow increase of the wind speed in altitudes above 13000 ft.
- b) A wind speed change of more than 15 kt.
- c) A vertical or horizontal change of wind speed and wind direction
- d) A meteorological downslope wind phenomenon in the alps

07. The ratio of span and mean chord length is referred to as...

- a) Trapezium shape.
- b) Tapering
- c) Aspect ratio.
- d) Wing sweep.

08. 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)

09. What is the function of the static rudder balance?

- a) To trim the controls almost without any force
- b) To increase the control stick forces
- c) To limit the control stick forces
- d) To prevent control surface flutter

10. Heavy downdrafts and strong wind shear close to the ground can be expected...

- a) During cold, clear nights with the formation of radiation fog
- b) Near the rainfall areas of heavy showers or thunderstorms
- c) During approach to an airfield at the coast with a strong sea breeze
- d) During warm summer days with high, flatted Cu clouds.

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11. 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

12. 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

13. The aerodynamic rudder balance...

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

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

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

15. Being intercepted by a military aircraft at daytime, what is the meaning of the following signal: Alternating movement of the ailerons, normally left of the intercepted aircraft, followed by a smooth turn to the left?

- a) Prepare for a safety landing, you have entered a prohibited area
- b) You are entering a restricted area, leave the airspace immediately
- c) Follow me
- d) You are clear of any restricted or reserved airspaces, you can continue on your heading

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16. Regarding the type of cloud, precipitation is classified as...

- a) Light and heavy precipitation.
- b) Showers of snow and rain
- c) Prolonged rain and continuous rain.
- d) Rain and showers of rain.

17. What is the meaning of a flashing red light signal at a controlled aerodrome directed to an aircraft on ground?

- a) Cleared for take-off
- b) Cleared to taxi
- c) Immediately taxi clear of runway in use
- d) Return to starting point

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

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

19. In which way does the position of the center of pressure move at a positively shaped profile with increasing angle of attack?

- a) It moves backward until reaching the critical angle of attack
- b) It moves forward first, then backward
- c) It moves forward until reaching the critical angle of attack
- d) It moves to the wing tips

20. An aircraft is following a true course (TC) of 220° at a constant TAS of 220 kt. The wind vector is 270°/50 kt. The ground speed (GS) equals...

- a) 170 kt
- b) 185 kt.
- c) 255 kt.
- d) 135 kt.

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21. Given: QDM: 248° VAR: 10° W The QTE is...

- a) 238°.
- b) 078°
- c) 058°.
- d) 258°.

22. What is the true airspeed (TAS) [kt] and fuel consumption [l/h] for cruise flight with 60 % power in flight level 60 under the following conditions? Temperature: ISA - 20° C QNH: 980 hPa See annex (PFP-012) (2,00 P.) Siehe Anlage 10

- a) 96 kt. 19.1 l/h.
- b) 95 kt. 19.6 l/h.
- c) 110 kt. 25.1 l/h.
- d) 95,75 kt. 19.8 l/h.

23. Where does the condensation water converge in the tank?

- a) It floats on the fuel
- b) It floats on the fuel
- c) At the lowest position
- d) It is mixed with the fuel

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

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

25. Raise the nose to decrease airspeed

- a) During recovery the ailerons should be kept neutral
- b) Only very old aeroplanes have a risk of spinning
- c) During recovery the ailerons should be crossed
- d) During the spin the speed constantly increases

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26. 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

27. In what case is visibility transmitted in meters?

- a) Up to 5 km
- b) Greater than 10 km
- c) Greater than 5 km
- d) Up to 10 km

28. How does the aircraft configuration influence take-off performance while all other parameters remaining constant? See figure (PFP-007) (1,00 P.) Siehe Anlage 7

- a) Aircraft B has a higher tyre pressure than aircraft A
- b) Aircraft A has a higher tyre pressure than aircraft B
- c) Aircraft B has a higher flap setting than aircraft A
- d) Aircraft A has a higher flap setting than aircraft B

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

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

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

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

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31. What is the meaning of the abbreviation "IFR"?

- a) Instrument Flight Rules
- b) Instrument Meteorological Conditions
- c) Bad Weather Flight Rules
- d) Commercial Flight Rules

32. What is the true course (TC) from Uelzen (EDVU) (52°59'N, 10°28'E) to Neustadt (EDAN) (53°22'N, 011°37'E)? See annex (NAV-031) (1,00 P.) Siehe Anlage 3

- a) 241°
- b) 235°
- c) 061°
- d) 055°

33. The term "moment" with regard to a mass and balance calculation is referred to as...

- a) Sum of a mass and a balance arm.
- b) Quotient of a mass and a balance arm.
- c) Difference of a mass and a balance arm
- d) Product of a mass and a balance arm.

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. 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

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36. The pressure which is measured at a ground station and reduced to mean sea level (MSL) by means of the actual atmospheric conditions is called...

- a) QNH
- b) QNE
- c) QFE
- d) QFF

37. Which altitude is displayed on the altimeter when set to a specific QNH?

- a) Altitude in relation to the 1013.25 hPa datum
- b) Altitude in relation to mean sea level
- c) Altitude in relation to the air pressure at the reference airfield
- d) Altitude in relation to the highest elevation within 10 km

38. 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

39. (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

40. Two aircraft of the same type, same grossweight and same configuration fly at different airspeeds. Which aircraft will cause more severe wake turbulence?

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

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41. What structural item provides directional stability to an airplane?

- a) Differential aileron deflection
- b) Large vertical tail
- c) Wing dihedral
- d) Large elevator

42. What is the primary purpose of an aircraft accident investigation?

- a) To Determine the guilty party and draw legal consequences
- b) To clarify questions of liability within the meaning of compensation for passengers
- c) To identify the reasons and work out safety recommendations
- d) To work for the public prosecutor and help to follow-up flight accidents

43. What factors are required for the formation of precipitation in clouds?

- a) High humidity and high temperatures
- b) The presence of an inversion layer
- c) Calm winds and intensive sunlight insolation
- d) Moderate to strong updrafts

44. 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

45. The balance arm is the horizontal distance between...

- a) The front C.G. limit and the datum line
- b) The C.G. of a mass and the rear C.G. limit
- c) The C.G. of a mass and the datum line
- d) The front C.G. limit and the rear C.G. limit

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46. The critical angle of attack...

- a) Increases with a front centre of gravity.
- b) Decreases with a rear centre of gravity.
- c) Is changed by different aircraft weights.
- d) Is not changed by different aircraft weights.

47. What is the meaning of the phrase "Correction"?

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

48. What cloud type can typically be observed across widespread high pressure areas during summer?

- a) Overcast low stratus
- b) Scattered Cu clouds
- c) Overcast Ns clouds
- d) Squall lines and thunderstorms

49. Which Q-code is used for the magnetic bearing from the station?

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

50. What is the meaning of a steady red light signal at a controlled aerodrome directed to an aircraft on ground?

- a) Land at this airport and proceed to apron
- b) Clear the taxiway / runway
- c) Return to starting point
- d) Stop

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51. 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.

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

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

53. 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°.

54. Given the following information, what range can be achieved? Outside air temperature: 22° C Pressure altitude: 2000 ft Power: 55 % See annex (PFP-013) (1,00 P.) Siehe Anlage 12

- a) 550 NM
- b) 480 NM
- c) 450 NM
- d) 500 NM

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

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

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56. From which altitude on does the body usually react to the decreasing atmospheric pressure?

- a) 2000 feet
- b) 7000 feet
- c) 10000 feet
- d) 12000 feet

57. 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.

58. Which is the purpose of the altimeter subscale?

- a) To set the reference level for the altitude decoder of the transponder
- b) To adjust the altimeter reading for non-standard temperature
- c) To reference the altimeter reading to a predetermined level such as mean sea level, aerodrome level or pressure level 1013.25 hPa
- d) To correct the altimeter reading for system errors

59. 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.

60. 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.

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61. 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.

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

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

63. Who provides search and rescue service?

- a) Only military organisations
- b) International approved organisations
- c) Only civil organisations
- d) Both military and civil organisations

64. What change of wind direction can be expected during the passage of a polar front low in Central Europe?

- a) Backing wind during passage of the warm front, veering wind during passage of the cold front
- b) Backing wind during passage of the warm front, backing wind during passage of the cold front
- c) Veering wind during passage of the warm front, veering wind during passage of the cold front
- d) Veering wind during passage of the warm front, backing wind during passage of the cold front

65. What is the required fuel 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) 1 GAL
- b) 2 GAL
- c) 6 GAL
- d) 3 GAL

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66. The symbol labeled (3) as shown in the picture is a / an... See figure (MET-005) (1,00 P.) Siehe Anlage 4

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

67. What weather phenomenon designated by "2" has to be expected on the lee side during "Foehn" conditions? See figure (MET-001). Siehe Anlage 1

- a) Altocumulus Castellanus
- b) Nimbostratus
- c) Cumulonimbus
- d) Altocumulus lenticularis

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

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

69. Number 1 on the gear designates the... See figure (AGK-005) (1,00 P.) Siehe Anlage 3

- a) Fork
- b) Strut
- c) Torque link
- d) Inner shock absorber.

70. 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

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Schema Risposte

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

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