

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. Which light colour advises the pilot to the condition "corrective action may be required in the future"?

- a) Amber (orange)
- b) Red
- c) Blue
- d) Green

02. 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

03. The trim is used to...

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

04. 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

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05. 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

06. In what case is the pilot allowed to abbreviate the call sign of his aircraft?

- a) After the ground station has used the abbreviation
- b) Within controlled airspace
- c) If there is little traffic in the traffic circuit
- d) After passing the first reporting point

07. 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

08. How can wind speed and wind direction be derived from surface weather charts?

- a) By alignment and distance of isobaric lines
- b) By alignment and distance of hypsometric lines
- c) By alignment of lines of warm- and cold fronts.
- d) By annotations from the text part of the chart

09. 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

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10. 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

11. 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

12. 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

13. Which statement is correct with regard to the short-term memory?

- a) It can store 10 (± 5) items for 30 to 60 seconds
- b) It can store 7 (± 2) items for 10 to 20 seconds
- c) It can store 3 (± 1) items for 5 to 10 seconds
- d) It can store 5 (± 2) items for 1 to 2 minutes

14. How do induced drag and parasite drag change with increasing airspeed during a horizontal and stable cruise flight?

- a) Induced drag decreases and parasite drag increase
- b) Parasite drag decreases and induced drag increases
- c) Parasite drag decreases and induced drag decreases
- d) Induced drag increases and parasite drag increases

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15. Which phenomenon may be expected at point 3 of the microburst? See figure (OPR-001) (1,00 P.) Siehe Anlage 1

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

16. In which way may an altimeter subscale which is set to an incorrect QNH lead to an incorrect altimeter reading?

- a) If the subscale is set to a lower than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- b) If the subscale is set to a higher than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- c) If the subscale is set to a lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended
- d) If the subscale is set to a higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended

17. Complacency is a risk due to...

- a) The high number of mistakes normally made by humans.
- b) Increased cockpit automation.
- c) The high error rate of technical systems.
- d) Better training options for young pilots.

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

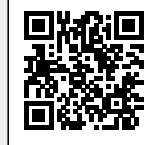
- a) Interference drag
- b) Skin-friction drag
- c) Induced drag
- d) Form drag

19. The term "balance arm" in the context of a mass and balance calculation defines the...

- a) Distance from the datum to the center of gravity of a mass.
- b) Distance of a mass from the center of gravity.
- c) Point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- d) Point through which the force of gravity is said to act on a mass.

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20. Temperatures will be given by meteorological aviation services in Europe in which unit?

- a) Degrees Centigrade (° C)
- b) Kelvin
- c) Gpdam
- d) Degrees Fahrenheit

21. What is the meaning of "risky shift"?

- a) Crossing of rudder and ailerons on short final
- b) The tendency to accept higher risks in groups
- c) Spontaneous change of landing direction when the runway has an upslope
- d) Seat adjustment in flight

22. Which navigation facility may be used for broadcasting the ATIS?

- a) GPS
- b) DME
- c) NDB
- d) VOR

23. Wing tip vortex development begins during which phase of flight?

- a) As soon as the aircraft starts moving
- b) While setting take-off power during take-off run
- c) While setting flaps to lower position
- d) When lift is being generated during rotation

24. The specified speed in the ATS flight plan equals: See annex (PFP-051) (1,00 P.) Siehe Anlage 20

- a) 1000 kt
- b) 100 m/h.
- c) 100 km/h
- d) 100 kt.

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25. Which of the following messages has the highest priority?

- a) Turn left
- b) Request QDM
- c) QNH 1013
- d) Wind 300 degrees, 5 knots

26. The transponder code in case of hi-jacking is...

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

27. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are the VAR and the DEV?

- a) VAR: 004° W. DEV: +002°.
- b) VAR: 004° W. DEV: -002°
- c) VAR: 004° E. DEV: +002°.
- d) VAR: 004° E. DEV: -002°

28. 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.

29. What is the required distance to 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) 10 NM
- b) 6 NM
- c) 4 NM
- d) 7 NM

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30. 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.

31. How should an Otto engine be shut down?

- a) By completely leaning the mixture
- b) By moving the propeller to the feathered position
- c) By closing the throttle lever completely
- d) By shutting down the generator

32. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?

- a) Roger
- b) Squawk 4321, wilco
- c) Squawk 4321, 131.325
- d) Wilco

33. What is the difference in latitude between A (12°53'30"N) and B (07°34'30"S)?

- a) 20°28'00"
- b) 05,19°
- c) 20,28°
- d) 05°19'00"

34. What is the meaning of the phrase "Approved"?

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

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35. Exceeding the maximum allowed aircraft mass is...

- a) Not permissible and essentially dangerous
- b) Only relevant if the excess is more than 10 %
- c) Compensated by the pilot's control inputs
- d) Exceptionally permissible to avoid delays.

36. Measured pressure distribution in MSL and corresponding frontal systems are displayed by the...

- a) Prognostic chart.
- b) Significant Weather Chart (SWC)
- c) Surface weather chart.
- d) Hypsometric chart.

37. Wake turbulence is particularly strong...

- a) At a high aeroplane weight.
- b) When flying with high thrust.
- c) When flying with low thrust.
- d) At a low aeroplane weight.

38. Of what shape is a landing direction indicator?

- a) L
- b) A straight arrow
- c) An angled arrow
- d) T

39. The distance from 'A' to 'B' measures 120 NM. At a distance of 55 NM from 'A' the pilot realizes a deviation of 7 NM to the right. What approximate course change must be made to reach 'B' directly?

- a) 8° left
- b) 6° left
- c) 15° left
- d) 14° left

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

- a) Cleared to taxi
- b) Return to starting point
- c) Land at this airport and proceed to the apron
- d) Cleared for take-off

41. What ground features should preferably be used for orientation during visual flight?

- a) Border lines
- b) Farm tracks and creeks
- c) Power lines
- d) Rivers, railroads, highway

42. 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

43. How may windshear be recognised in flight?

- a) Sudden and apparently baseless change in altitude, airspeed, rate of climb or descent.
- b) Sudden and apparently baseless change in heading, turning rate, engine speed or oil temperature
- c) Sudden and apparently baseless change of oilpressure, oil temperature, engine speed and altitude
- d) Rather unexpected onset of drizzle associated with high stratus clouds following previously clear skies and calm conditions

44. 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

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45. A precautionary landing is a landing...

- a) Conducted without power from the engine.
- b) Conducted in response to circumstances forcing the aircraft to land.
- c) Conducted in an attempt to sustain flight safety.
- d) Conducted with the flaps retracted.

46. Which abbreviation is used for the term "abeam"?

- a) ABM
- b) ABB
- c) ABA
- d) ABE

47. An aircraft is flying with an indicated airspeed (IAS) of 150 kt at 8000 ft MSL. According to the rule of thumb, the true airspeed (TAS) equals...

- a) 174 kt.
- b) 150 kt
- c) 142 kt.
- d) 208 kt

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

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

49. Which type of ice forms by very small water droplets and ice crystals hitting the front surfaces of an aircraft?

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

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50. What does the abbreviation "QUJ" stand for?

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

51. The required data for a mass and balance calculation including masses and balance arms can be found in the...

- a) Performance section of the pilot's operating handbook of this particular aircraft
- b) Mass and balance section of the pilot's operating handbook of this particular aircraft
- c) Documentation of the annual inspection.
- d) Certificate of airworthiness.

52. What has to be considered when entering an RMZ?

- a) To permanently monitor the radio and if possible to establish radio contact
- b) To obtain a clearance from the local aviation authority
- c) The transponder has to be switched on Mode C and squawk 7000
- d) To obtain a clearance to enter this area

53. (For this question, please use annex PFP-062) According ICAO, what symbol indicates a civil airport (not international airport) with paved runway? (2,00 P.) Siehe Anlage 23

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

54. In flight, a little smoke emerges from behind the instrument panel. An engine 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) Use the fire extinguisher
- d) Turn off the master switch

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55. With only a slight crosswind, what is the danger at take-off after the departure of a heavy aeroplane?

- a) Wake turbulence on or near the runway
- b) Wake turbulence is amplified and distorted.
- c) Wake turbulence rotate faster and higher.
- d) Wake turbulence twisting transverse to the runway

56. Which point on the aerofoil is represented by number 4? See figure (PFA-009) (1,00 P.) Siehe Anlage 2

- a) Center of pressure
- b) Separation point
- c) Transition point
- d) Stagnation point

57. What danger is most imminent when an aircraft is hit by lightning?

- a) Rapid cabin depressurization and smoke in the cabin
- b) Surface overheat and damage to exposed aircraft parts
- c) Explosion of electrical equipment in the cockpit
- d) Disturbed radio communication, static noise signals

58. All aerodynamic forces can be considered to act on a single point. This point is called...

- a) Center of gravity.
- b) Center of pressure.
- c) Lift point.
- d) Transition point.

59. Which equipment is needed on board of an aircraft to use a VHF direction finder (VDF)?

- a) At least two VHF aerals
- b) A VHF radio
- c) A relative bearing indicator (RBI)
- d) A VDF receiver

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60. It is possible that the surface wind speed at an airport is reduced due to friction. When a surface area with a minor tailwind condition is left during the initial climb, the pilot might expect...

- a) An increase in airspeed and rate of climb due to decreasing tailwind
- b) A decrease in airspeed and climb performance due to decreasing tailwind
- c) An increase in airspeed and rate of climb due to increasing tailwind.
- d) A decrease in airspeed and rate of climb due to increasing tailwind.

61. 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.

62. 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)

63. Which method is appropriate to approach an unprepared landing field?

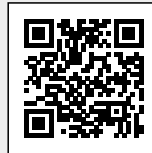
- a) Flat direct approach to ensure visual ground contact
- b) Steep approach to keep the noise level low
- c) Fast approach, performance check, and landing within a quick stop
- d) Terrain investigation to determine approach points and landing

64. What is the distance from VOR Brünkendorf (BKD) (53°02'N, 011°33'E) to Pritzwalk (EDBU) (53°11'N, 12°11'E)? See annex (NAV-031) (1,00 P.) Siehe Anlage 3

- a) 24 km
- b) 42 NM
- c) 24 NM
- d) 42 km

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65. What must be considered for cross-border flights?

- a) Transmission of hazard reports
- b) Regular location messages
- c) Approved exceptions
- d) Requires flight plans

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

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

67. 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

68. Which lines have to be used by the pilot to determine the aircraft's position?

- a) True bearings (QTE)
- b) Magnetic bearings (QDR)
- c) Relative bearings (RB)
- d) Magnetic headings (MH)

69. Which of the following are an aircraft's secondary flight controls?

- a) Elevator, rudder, aileron
- b) All movable parts on the aircraft which aid in controlling the aircraft
- c) Elevator, rudder, aileron, trim tabs, high-lift wing devices, power controls
- d) Wing flaps, leading edge devices, spoilers or speedbrakes, trim systems

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70. Which of the mentioned cockpit instruments is connected to the pitot tube?

- a) Vertical speed indicato
- b) Direct-reading compass
- c) Altimeter
- d) Airspeed indicator

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Schema Risposte

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

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