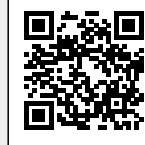


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NOME ALLIEVO:

DATA & ORA:

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

- a) 300°
- b) 360°
- c) 240°
- d) 270°

02. How can you obtain meteorological information concerning airports during a cross-country flight?

- a) VOLMET
- b) GAMET
- c) METAR
- d) AIRMET

03. What is the function of the white blood cells (leucocytes)?

- a) Oxygen transport
- b) Blood coagulation
- c) Blood sugar regulation
- d) Immune defense

04. What pattern can be found at the stagnation point?

- a) The boundary layer starts separating on the upper surface of the profile
- b) The laminar boundary layer changes into a turbulent boundary layer
- c) All aerodynamic forces can be considered as attacking at this single point
- d) Streamlines are divided into airflow above and below the profile

05. 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.

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06. 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.

07. What is the meaning of the abbreviation "TRA"? (

- a) Temporary Reserved Airspace
- b) Temporary Radar Routing Area
- c) Transponder Area
- d) Terminal Area

08. What effects typically result from propeller icing?

- a) Reduced power output, decreasing RPM
- b) Increased power output, decreasing RPM.
- c) Increased power output, increasing RPM.
- d) Reduced power output, increasing RPM.

09. Which part of the visual system is responsible for colour vision?

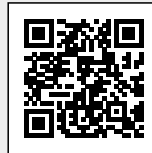
- a) Cones
- b) Rods
- c) Macula
- d) Blind spot

10. 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.

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11. 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

12. In what cases is visibility transmitted in kilometers?

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

13. 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

14. 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

15. 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

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16. Under what conditions may class D airspace be entered with a radio failure?

- a) Approval has been granted before
- b) There are other aircraft in the aerodrome circuit
- c) It is the aerodrome of departure
- d) It is the destination aerodrome

17. What does the term "confirmation bias" mean?

- a) The feedback loop in a closed communication
- b) The preference to find arguments to prove the own mental model
- c) The bias to confirm each radio call
- d) The critical check of ambiguous situations in flight

18. The critical angle of attack...

- a) Changes with increasing weight.
- b) Decreases with forward center of gravity position
- c) Is independent of the weight.
- d) Increases with backward center of gravity position.

19. 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.

20. 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.

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21. Which cylinder arrangement is commonly used on small aircrafts and motor gliders?

- a) Horizontally opposed engine
- b) Radial engine
- c) In-line engine
- d) V-type engine

22. The position of the center of gravity equals... See figure (PFP-052e) (1,00 P.) Siehe Anlage 1

- a) 147.5 in.
- b) 145.7 in.
- c) 142 in.
- d) 137.5 in

23. What is the purpose of the semi-circular rule?

- a) To avoid collisions by reducing the probability of opposing traffic at the same altitude
- b) To fly without a filed flight plan in prescribed zones published in the AIP
- c) To allow safe climbing or descending in a holding pattern
- d) To avoid collisions by suspending turning manoeuvres

24. What conditions are mandatory for the formation of thermal thunderstorms?

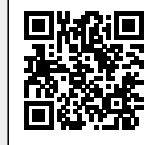
- a) Conditionally unstable atmosphere, low temperature and low humidity
- b) Absolutely stable atmosphere, high temperature and high humidity
- c) Absolutely stable atmosphere, high temperature and low humidity
- d) Conditionally unstable atmosphere, high temperature and high humidity

25. 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

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26. What is the reason for static dischargers on aircraft?

- a) To ensure grounding during refueling
- b) To discharge static charging during flight
- c) To eliminate electrical interferences during intensive radio traffic
- d) To improve the quality of radio transmission in high altitudes

27. Which answer contains every state of water found in the atmosphere?

- a) Liquid and solid
- b) Liquid, solid, and gaseous
- c) Gaseous and liquid
- d) Liquid

28. An aircraft is following a true course (TC) of 040° at a constant true airspeed (TAS) of 180 kt. The wind vector is 350°/30 kt. The wind correction angle (WCA) equals...

- a) +5°
- b) + 11°
- c) - 7°
- d) - 9°

29. 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

30. A flight level is a...

- a) Pressure altitude.
- b) Density altitude
- c) Altitude above ground
- d) True altitude.

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31. What is the call sign of the aerodrome control?

- a) Tower
- b) Airfield
- c) Ground
- d) Control

32. How can the pilot of an engine-driven aircraft minimise the noise emission during descent and approach?

- a) How can the pilot of an engine-driven aircraft minimise the noise emission during descent and approach?
- b) Descent and approach in landing configuration while maintaining a descent angle of 3°, direct approach whenever possible
- c) Low approach with minimum power setting, late configuration and steep approach, adherence to established arrival routes
- d) High approach with minimum power setting, late descent, late configuration, adherence to established arrival routes

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. 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.

35. 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

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36. The term "static pressure" is defined as pressure...

- a) Inside the airplane cabin.
- b) Of undisturbed airflow.
- c) Resulting from orderly flow of air particles.
- d) Sensed by the pitot tube.

37. Which of the following options does NOT stimulate motion sickness (disorientation)?

- a) Head movements during turns
- b) Flying under the influence of alcohol
- c) Non-accelerated straight and level flight
- d) Turbulence in level flight

38. 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

39. What is the meaning of the abbreviation "ARC"?

- a) Airworthiness Recurring Control
- b) Airspace Rulemaking Committee
- c) Airspace Restriction Criteria
- d) Airworthiness Review Certificate

40. Moderate to severe turbulence has to be expected...

- a) With the appearance of extended low stratus clouds (high fog)
- b) Overhead unbroken cloud layers.
- c) Below thick cloud layers on the windward side of a mountain range
- d) On the lee side of a mountain range when rotor clouds are present.

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41. Which maximum rate of climb can the aircraft reach at 9000 ft pressure altitude and OAT 12° C? See annex (PFP-011) (1,00 P.) Siehe Anlage 11

- a) 200 ft/min
- b) 250 ft/min
- c) 350 ft/min
- d) 300 ft/min

42. What is the status of the rules and procedures created by the EASA? (e.g. Part-SFCL, Part-MED)

- a) They have the same status as ICAO Annexes
- b) Only after a ratification by individual EU member states they are legally binding
- c) They are not legally binding, they only serve as a guide
- d) They are part of the EU regulation and legally binding to all EU member states

43. Carbon monoxide poisoning can be caused by...

- a) Fuel or hydraulic fluids.
- b) Generator failure.
- c) Cracks in the heat exchanger.
- d) Pitot icing.

44. Given: True course from A to B: 283°. Ground distance: 75 NM. TAS: 105 kt. Headwind component: 12 kt. Estimated time of departure (ETD): 1242 UTC. The estimated time of arrival (ETA) is...

- a) 1430 UTC
- b) 1356 UTC
- c) 1330 UTC
- d) 1320 UTC

45. Which stage of a thunderstorm is dominated by updrafts?

- a) Dissipating stage
- b) Upwind stage
- c) Mature stage
- d) Cumulus stage

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46. The DME reading is a...

- a) Ground distance.
- b) Air range
- c) Radial distance.
- d) Slant range.

47. The term 'isogonal' or 'isogonic line' is defined as a line on an aeronautical chart, connecting all points with the same value of...

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

48. Point A on the Earth's surface lies exactly on the parallel of latitude of 47°50'27"N. Which point is exactly 240 NM north of A?

- a) 43°50'27"N
- b) 53°50'27"N
- c) 49°50'27"N
- d) 51°50'27"N

49. What is meant by "inversion layer"?

- a) An atmospheric layer where temperature decreases with increasing height
- b) A boundary area between two other layers within the atmosphere
- c) An atmospheric layer with constant temperature with increasing height
- d) An atmospheric layer where temperature increases with increasing height

50. Which wing configuration is shown in the attachment? See figure (AGK-002) (1,00 P.) Siehe Anlage 1

- a) Strut-braced high wing
- b) High wing
- c) Mid wing
- d) Low wing

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51. What distance corresponds to one degree difference in latitude along any degree of longitude?

- a) 1 NM
- b) 60 NM
- c) 30 NM
- d) 60 km

52. The altimeter's reference scale is set to airfield pressure (QFE). What indication is shown during the flight?

- a) Pressure altitude
- b) Height above airfield
- c) Airfield elevation
- d) Altitude above MSL

53. An aerodrome beacon (ABN) is a...

- a) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground.
- b) Rotating beacon installed at the beginning of the final approach to indicate its location to aircraft pilots from the air.
- c) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.
- d) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.

54. 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.

55. What is the meaning of a flashing red light signal at a controlled aerodrome directed to an aircraft in flight?

- a) Airport unsafe, do not land
- b) Return for landing, followed by steady green at the appropriate time
- c) Cleared to land
- d) Give way to other aircraft and continue circling

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56. 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

57. Mountain side updrafts can be intensified by ...

- a) Solar irradiation on the windward side
- b) Solar irradiation on the lee side
- c) By warming of upper atmospheric layers
- d) Thermal radiation of the windward side during the night

58. 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.

59. What describes "wing loading"?

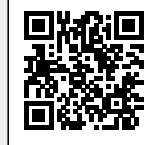
- a) Drag per wing area
- b) Drag per weight
- c) Wing area per weight
- d) Weight per wing area

60. What weather conditions in Central Europe are typically found in high pressure areas during summer?

- a) Large isobar spacing with calm winds, formation of local wind systems
- b) Large isobar spacing with strong prevailing westerly winds
- c) Small isobar spacing with calm winds, formation of local wind systems
- d) Small isobar spacing with strong prevailing northerly winds

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61. 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

62. Point number 5 in the figure indicates which flight state? See figure (PFA-008) (1,00 P.) Siehe Anlage 5

- a) Best gliding angle
- b) Slow flight
- c) Stall
- d) Inverted flight

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

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

64. Immediately after lift-off, a microburst is entered inadvertently. Which action might avoid an unintentional descent?

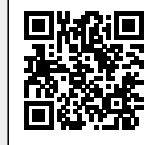
- a) Immediately after lift-off, a microburst is entered inadvertently. Which action might avoid an unintentional descent?
- b) Set maximum power, retract landing gear and flaps, pick up speed and perform a left or a right turn in an attempt to leave the area of the microburst on the shortest way
- c) 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

65. 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

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66. What is the correct term for an involuntary and stereotypical reaction of an organism to the stimulation of a receptor?

- a) Reduction
- b) Virulence
- c) Coherence
- d) Reflex

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

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

68. 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.

69. 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

70. Deflecting the rudder to the left causes...

- a) Pitching of the aircraft to the right.
- b) Yawing of the aircraft to the right
- c) Yawing of the aircraft to the left.
- d) Pitching of the aircraft to the left

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Schema Risposte

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

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