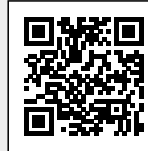


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NOME ALLIEVO:

DATA & ORA:

01. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL110?

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

02. The trim wheel or lever in the cockpit is moved aft by the pilot. What effect does this action have on the trim tab and on the elevator?

- a) The trim tab moves up, the elevator moves up
- b) The trim tab moves up, the elevator moves down
- c) The trim tab moves down, the elevator moves up
- d) The trim tab moves down, the elevator moves down

03. How does air temperature change in ISA from MSL to approx. 10.000 m height?

- a) From +20° to -40°C
- b) From +30° to -40°C
- c) From -15° to 50°C
- d) From +15° to -50°C

04. Which statement concerning the angle of attack is correct?

- a) The angle of attack cannot be negative
- b) Increasing the angle of attack results in decreasing lift
- c) The angle of attack is constant throughout the flight
- d) A too large angle of attack may result in a loss of lift

05. What does the slip indicator show?

- a) Apparent vertical
- b) Rate of turn
- c) Vertical to horizon
- d) Airplane's bank

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06. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance A = Arousal / Stress Siehe Anlage 1

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

07. The rotational axis of the Earth runs through the...

- a) Geographic North Pole and on the geographic South Pole.
- b) Geographic North Pole and on the magnetic south pole.
- c) Magnetic north pole and on the magnetic south pole
- d) Magnetic north pole and on the geographic South Pole

08. May an engine, which previously was on fire, be restarted?

- a) No, the risk of a reignition of the fire would be too high
- b) Yes, if the aircraft is flying at a safe altitude
- c) Yes, but only on the ground for the purpose of taxiing
- d) Yes, but only if the cause of the fire was a carburettor fire during engine start

09. Where is interference drag generated?

- a) At the wing root
- b) At the ailerons
- c) At the the gear
- d) Near the wing tips

10. Given a visibility of 12 km, what is the correct way to transmit this visibility?

- a) One-two kilometers
- b) Twelve kilometers
- c) One-zero kilometers or more
- d) One-zero kilometers.

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11. Winds blowing downhill are defined as...

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

12. Which altitude marks the lower limit where the the body is unable to completely compensate the effects of the low atmospheric pressure?

- a) 12000 feet
- b) 22000 feet
- c) 5000 feet
- d) 7000 feet

13. 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

14. 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

15. What weather conditions may be expected during conditionally unstable conditions?

- a) Layered clouds up to high levels, prolonged rain or snow
- b) Shallow cumulus clouds with base at medium levels
- c) Sky clear of clouds, sunshine, low winds
- d) Towering cumulus, isolated showers of rain or thunderstorms

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16. 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

17. 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 ventilation

18. 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

19. What is the unit for voltage?

- a) Ampere
- b) Watt
- c) Ohm
- d) Volt

20. What information is broadcasted on a VOLMET frequency?

- a) Navigational information
- b) NOTAMS
- c) Current information
- d) Meteorological information

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21. What is the great circle distance between two points A and B on the equator when the difference between the two associated meridians is exactly one degree of longitude?

- a) 60 NM
- b) 400 NM
- c) 120 NM
- d) 216 NM

22. Given: WCA: -012°; TH: 125°; MC: 139°; DEV: 002°E What are: TC, MH und CH?

- a) TC: 113°. MH: 127°. CH: 129°.
- b) TC: 137°. MH: 127°. CH: 125°.
- c) TC: 137°. MH: 139°. CH: 125°.
- d) TC: 113°. MH: 139°. CH: 129°.

23. Number 2 on the gear designates the... See figure (AGK-005) (1,00 P.) Siehe Anlage 3

- a) Fork
- b) Torque link.
- c) Fixed outer cylinder.
- d) Movable inner cylinder

24. The slip indicator's ball (apparent vertical) has moved to the right during a right turn. By what actions may the ball led back to middle position?

- a) Reduce bank, increase rate of turn
- b) Increase bank, increase rate of turn
- c) Reduce speed, increase bank
- d) Reduce rate of turn, reduce bank

25. A pilot license issued in accordance with ICAO Annex 1 is valid in...

- a) Those countries that have accepted this license on application.
- b) The country where the license was issued.
- c) All ICAO countries.
- d) The country where the license was acquired.

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26. What pressure pattern can be observed when a cold front is passing?

- a) Continually decreasing pressure
- b) Shortly decreasing, thereafter increasing pressure
- c) Continually increasing pressure
- d) Constant pressure pattern

27. What is the minimum age to obtain a private pilot license?

- a) 17 years
- b) 21 years
- c) 16 years
- d) 18 years

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

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

29. The speed V_y is defined as...

- a) Best speed of climb.
- b) Best angle of climb.
- c) Best distance of climb.
- d) Best distance of climb.

30. Which of the instruments listed below obtain their readings through pressure measurement?

- a) Oil pressure gauge, fuel pressure gauge, manifold pressure gauge, altimeter, vertical speed indicator, airspeed indicator, suction gauge
- b) Oil pressure gauge, fuel pressure gauge, fuel quantity gauge, manifold pressure gauge, differential pressure gauge, altimeter
- c) Airspeed indicator, vertical speed indicator, altimeter, directional gyro, turn and bank coordinator, oil pressure gauge, fuel pressure gauge
- d) Airspeed indicator, vertical speed indicator, altimeter, magnetic compass, oil pressure gauge, fuel pressure gauge

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31. 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

32. Wet snow on a runway can lead to...

- a) An increase in lift.
- b) A decrease in lift.
- c) Reduced rolling resistance during take-off.
- d) Increased rolling resistance during take-off.

33. A flight plan has been filed for a flight departing at an uncontrolled aerodrome. When has the actual take-off time been transmitted to ATC?

- a) Upon request from ATC.
- b) When landing is assured
- c) Immediately after take-off.
- d) At deviation from expected off-block time by more than 15 min.

34. 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

35. During an unaccelerated flight...

- a) Drag equals lift and thrust equals gravity.
- b) Thrust equals the sum of drag and gravity.
- c) Thrust equals lift and drag equals gravity.
- d) Thrust equals drag and lift equals gravity.

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36. What is the call sign of the flight information service?

- a) Info
- b) Advice
- c) Flight information
- d) Information

37. A deceleration during a straight horizontal flight can lead to the illusion of...

- a) A climb.
- b) A descent.
- c) A bank.
- d) An inverted flight.

38. 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

39. Air consists of oxygen, nitrogen and other gases. What is the approximate percentage of other gases?

- a) 0.1 %
- b) 78 %
- c) 1 %
- d) 21 %

40. What are the air masses that Central Europe is mainly influenced by?

- a) Arctic and polar cold air
- b) Polar cold air and tropical warm air
- c) Equatorial and tropical warm air
- d) Tropical and arctic cold air

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41. 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

42. What describes "wing loading"?

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

43. Which weather phenomenon is typically associated with wind shear?

- a) Fog
- b) Invernal warm front.
- c) Thunderstorms
- d) Stable high pressure areas.

44. 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

45. 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

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46. What is the correct way to transmit the call sign HB-YKM?

- a) Home Bravo Yuliett Kilo Mike
- b) Hotel Bravo Yankee Kilo Mike
- c) Hotel Bravo Yuliett Kilo Mikro
- d) Home Bravo Yankee Kilo Mikro

47. What should be observed when taxiing behind a commercial airliner?

- a) To avoid wake turbulence, a minimum distance of 700 m should be maintained
- b) To avoid the jet blast, a minimum distance of 600 m should be maintained
- c) To avoid wake turbulence, a minimum distance of 300 m should be maintained
- d) To avoid the jet blast, a minimum distance of 200 m should be maintained

48. An ATIS is valid for...

- a) 10 minutes
- b) 45 minutes.
- c) 60 minutes.
- d) 30 minutes

49. 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

50. What is the function of the blood platelets (thrombocytes)?

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

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51. The term "aerodrome elevation" is defined as...

- a) The highest point of the landing area.
- b) The lowest point of the landing area.
- c) The highest point of the apron.
- d) The average value of the height of the manoeuvring area

52. Two aeroplanes are flying on crossing tracks. Which one has to divert?

- a) The aircraft which flies from left to right has the right of priority
- b) Both have to divert to the right
- c) The aircraft which flies from right to left has the right of priority
- d) Both have to divert to the left

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. What has to be considered with regard to the center of gravity position?

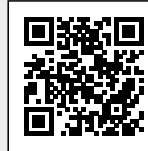
- a) The center of gravity's position can only be determined during flight.
- b) Only correct loading can assure a correct and safe center of gravity position
- c) By moving the elevator trim tab, the center of gravity can be shifted into a correct position
- d) By moving the aileron trim tab, the center of gravity can be shifted into a correct position.

55. 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

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56. The sandwich structure consists of two...

- a) Thin layers and a light core material
- b) Thin layers and a heavy core material
- c) Thick layers and a heavy core material.
- d) Thick layers and a light core material.

57. 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

58. The elevator moves an aeroplane around the...

- a) Lateral axis.
- b) Elevator axis.
- c) Longitudinal axis
- d) Vertical axis.

59. Weather and operational information about the destination aerodrome can be obtained during the flight by...

- a) VOLMET
- b) PIREP
- c) ATIS
- d) SIGMET

60. 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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61. 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

62. How should departures near villages be carried out?

- a) Slow with a low propeller rotation speed
- b) Low and fast between the villages
- c) Climb and changes in direction should be done as slow as possible
- d) Villages should be circumnavigated and crossed in a sufficient altitude

63. Which parts of an aircraft mainly affect the generation of induced drag?

- a) The front part of the fuselage.
- b) The wing tips
- c) The lower part of the gear.
- d) The outer part of the ailerons

64. Given: True course: 255°. TAS: 100 kt. Wind: 200°/10 kt. The true heading equals...

- a) 245°
- b) 275°.
- c) 265°
- d) 250°.

65. 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

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66. 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...

67. 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

68. Which type of ice forms by large, supercooled droplets hitting the front surfaces of an aircraft?

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

69. 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

70. Which phenomenon may be expected at point 2 of the microburst? See figure (OPR-001) (1,00 P.) Siehe Anlage 1

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

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Schema Risposte

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

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