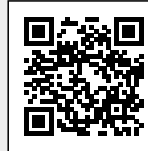


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NOME ALLIEVO:

DATA & ORA:

01. What is the meaning of an area marked as "TMZ"?

- a) Transportation Management Zone
- b) Touring Motorglider Zone
- c) Traffic Management Zone
- d) Transponder Mandatory Zone

02. In what different ways can a risk be handled appropriately?

- a) Extrude, avoid, palliate, transfer
- b) Ignore, accept, transfer, extrude
- c) Avoid, reduce, transfer, accept
- d) Avoid, ignore, palliate, reduce

03. The intensity of wake turbulence depends on...

- a) The propeller pitch.
- b) The temperature.
- c) The weight of the aeroplane.
- d) The altitude of the aeroplane

04. 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

05. What is the correct abbreviation of the call sign D-EAZF?

- a) DEA
- b) AZF
- c) DZF
- d) DEF

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06. How should the pilot react to an engaged stall warning?

- a) Pull the elevator, increase power
- b) Pull the elevator, decrease power
- c) Push the elevator, increase power
- d) Raise the nose to decrease airspeed

07. 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.

08. What has to be considered when taking off in a ground inversion?

- a) Climb should be performed with the lowest possible speed and maximum power
- b) Due to low temperatures close to the ground, icing has to be expected
- c) During climb, a sudden decrease in speed and climb performance has to be expected
- d) During the climb, a sudden increase in speed and climb performance has to be expected

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

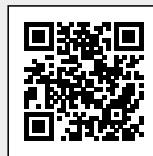
- a) Large isobar spacing with calm winds, formation of local wind systems
- b) Large isobar spacing with strong prevailing westerly winds
- c) Small isobar spacing with calm winds, formation of local wind systems
- d) Small isobar spacing with strong prevailing northerly winds

10. 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.

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11. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PFP-024) (1,00 P.) Siehe Anlage 18

- a) Height 9500 ft
- b) Altitude 9500 ft MSL
- c) Altitude 9500 m MSL
- d) Flight Level 95

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

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

13. What does the reported runway condition "DAMP" mean?

- a) Wet surface, but no significant puddles are visible
- b) Change of colour on the surface due to moisture
- c) The runway is clear of water, ice, and snow
- d) A large part of the surface is flooded

14. How do lift and drag change when setting flaps to a lower position?

- a) Lift increases, drag decreases
- b) Lift increases, drag increases
- c) Lift decreases, drag decreases
- d) Lift decreases, drag increases

15. What weather conditions can be expected during "Foehn" on the windward side of a mountain range?

- a) Dissipating clouds with unusual warming, accompanied by strong, gusty winds
- b) Scattered cumulus clouds with showers and thunderstorms
- c) Layered clouds, mountains obscured, poor visibility, moderate or heavy rain
- d) Calm wind and forming of high stratus clouds (high fog)

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16. 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.

17. The term "inclination" is defined as...

- a) Deviation induced by electrical fields.
- b) Angle between airplane's longitudinal axis and true north
- c) Angle between earth's magnetic field lines and horizontal plane
- d) Angle between magnetic and true north

18. Why is it dangerous to pump the throttle for engine start in cold weather?

- a) It may cause a carburettor fire
- b) Carburettor icing can occur
- c) The engine might start with not enough power
- d) The oil will become diluted

19. What is the meaning of this sign at an aerodrome? See figure (ALW-011) Siehe Anlage 3

- a) Landing prohibited for a longer period
- b) Glider flying is in progress
- c) Caution, manoeuvring area is poor
- d) After take-off and before landing all turns have to be made to the right

20. The measurement of altitude is based on the change of the...

- a) Dynamic pressure.
- b) Differential pressure.
- c) Static pressure.
- d) Total pressure.

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21. An acceleration during a straight horizontal flight can lead to the illusion of...

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

22. Full deflection of the course deviation indicator (CDI) means that the aircraft is located at least...

- a) 2 NM beside the selected course.
- b) 10 NM beside the selected course.
- c) 2° beside the selected course.
- d) 10° beside the selected course.

23. 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

24. Which part of the cycle of a four-stroke Otto engine can be seen in the attachment? See figure (AGK-008) (1,00 P.) Siehe Anlage 6

- a) Second stroke - compression
- b) Third stroke - power
- c) Fourth stroke - exhaust
- d) First stroke - induction

25. What is the meaning of the abbreviation "VMC"?

- a) Instrument flight conditions
- b) Variable meteorological conditions
- c) Visual meteorological conditions
- d) Visual flight rules

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26. What is the purpose of engine oil in piston engine?

- a) Cooling, lubrication of the engine and disposal of fine abrasion
- b) Cooling of the engine and lubrication of propeller shaft.
- c) For nose reduction and bearing of the propeller shaft
- d) Cooling, lubrication and increasing engine performance.

27. During final approach, the glider pilot realizes a very bumpy surface on a selected off field landing site. What technique may be recommended for landing?

- a) Touch down with minimum speed, compensate different ground levels with power lever
- b) Approach with increased speed, push elevator upon first ground contact
- c) Touch down with minimum speed, keep elevator pulled until full stop
- d) Approach with increased speed, avoid using wheel brakes

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

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

29. What are the minimum distances to clouds for a VFR flight in airspace "B"?

- a) Horizontally 1.500 m, vertically 1.000 m
- b) Horizontally 1.500 m, vertically 300 m
- c) Horizontally 1.000 m, vertically 1.500 ft
- d) Horizontally 1.000 m, vertically 300 m

30. 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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31. An aircraft travels 110 NM within 01:25. The ground speed (GS) equals...

- a) 120 km/h.
- b) 160 km/h
- c) 86 kt.
- d) 78 kt.

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

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

33. For a take-off from runway 22 and a reported wind of 250°/10 kt, the longitudinal wind component equals...

- a) 9 kt tailwind
- b) 5 kt tailwind.
- c) 9 kt headwind.
- d) 9 kt headwind.

34. What is the call sign of the surface movement control?

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

35. Being intercepted by a military aircraft at daytime, what is the meaning of the following signal: A sudden heading change of 90 degrees or more and a pull-up of the aircraft without crossing the track of the intercepted aircraft?

- a) You are entering a restricted area, leave the airspace immediately
- b) You may continue your flight
- c) Follow me, i will bring you to the next suitable airfield
- d) Prepare for a safety landing, you have entered a prohibited area

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36. Given the following data: Take-Off fuel = 200 lbs Alternate fuel = 40 lbs Final reserve fuel = 30 lbs After 25 minutes the remaining fuel is 120 lbs. Assuming that fuel flow will remain unchanged, the remaining time to the destination should not exceed:

- a) 37.5 min
- b) 20.0 min
- c) 15.6 min
- d) 59.4 min

37. 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

38. Given: True course from A to B: 250°. Ground distance: 210 NM. TAS: 130 kt. Headwind component: 15 kt. Estimated time of departure (ETD): 0915 UTC. The estimated time of arrival (ETA) is...

- a) 1115 UTC
- b) 1105 UTC.
- c) 1005 UTC
- d) 1052 UTC

39. 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

40. What is the meaning of the red range on the airspeed indicator?

- a) Speed which must not be exceeded within bumpy air
- b) Speed which must not be exceeded with flaps extended
- c) Speed which must not be exceeded regardless of circumstances
- d) Speed which must not be exceeded in turns with more than 45° bank

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41. Reasons for dents in the helicopter structure are...

- a) Material defects or old colour.
- b) Intense erosion or high wear.
- c) Hard landing or excessive stress.
- d) Excessive engine rpm and cylinder defects.

42. When extending the flaps for landing at constant angle of attack, in which way does the lift coefficient change far before reaching the maximum lift coefficient?

- a) It decreases
- b) It is not possible to define
- c) It increases
- d) It remains constant

43. The position of the center of gravity (including fuel) equals... See figure(PFP-053e) (1,00 P.) Siehe Anlage 2

- a) 37.1 cm
- b) 0.401 m
- c) 37.3 cm
- d) 0.403 m.

44. 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

45. What is the take-off distance at 750 kg take-off mass, standard (ISA) conditions at an elevation of 4000 ft with 5 kt tailwind? See annex (PFP-009) (1,00 P.) Siehe Anlage 9

- a) 900 m
- b) 320 m
- c) 630 m
- d) 480 m

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46. 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

47. 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

48. What is an indication for a macho attitude?

- a) Careful walkaround procedure
- b) Comprehensive risk assessment when faced with unfamiliar situations
- c) Risky flight maneuvers to impress spectators on ground
- d) Quick resignation in complex and critical situations

49. What extinguishing agent is the least suitable for an aircraft fire?

- a) Powder
- b) Halon
- c) Water
- d) Foam

50. 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

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51. What situation is called "over-development" in a weather report?

- a) Vertical development of Cumulus clouds to rain showers
- b) Widespreading of Cumulus clouds below an inversion layer
- c) Change from blue thermals to cloudy thermals during the afternoon
- d) Development of a thermal low to a storm depression

52. 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

53. The term 'agonic line' is defined as a line on Earth or an aeronautical chart, connecting all points with the...

- a) Deviation of 0°
- b) Inclination of 0°.
- c) Heading of 0°.
- d) Variation of 0°.

54. 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.

55. A Grey-out is the result of...

- a) Hypoxia
- b) Tiredness
- c) Positive g-forces.
- d) Hyperventilation

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56. The right aileron deflects upwards, the left downwards. How does the aircraft react?

- a) Rolling to the left, no yawing
- b) Rolling to the right, yawing to the right
- c) Rolling to the right, yawing to the left
- d) Rolling to the left, yawing to the right

57. (For this questions, use attachment or CAP697 SEP1 Fig. 2.2 Table 2.2.3) Planning a flight from EDWH (Oldenburg Hatten) to EDWF (Leer Papenburg), the following conditions apply: Cruise level = FL 65 Temperature = ISA+20 Cruise weight = 3400 lbs Power setting = 23.0 in. HG @ 2300 RPM What Indicated Airspeed (IAS) and Fuel Flow (FF) can be expected? (2,00 P.) Siehe Anlage 21

- a) IAS = 142 kt FF = 11.5 GPH
- b) IAS = 145 kt FF = 11.9 GPH
- c) IAS = 158kt FF = 11.5 GPH
- d) IAS = 150 kt FF = 12.3 GPH

58. Which is the colour of runway end lights?

- a) Red
- b) White
- c) Blue
- d) Green

59. What danger does standing water on the runway pose to aircraft?

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

60. The majority of aviation accidents are caused by...

- a) Technical failure
- b) Meteorological influences.
- c) Geographical influences.
- d) Human failure.

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61. 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

62. Which factor shortens landing distance?

- a) High pressure altitude
- b) Strong head wind
- c) Heavy rain
- d) High density altitude

63. How is an air mass described when moving to Central Europe via the Russian continent during winter?

- a) Maritime tropical air
- b) Continental tropical air
- c) Continental polar air
- d) Maritime polar air

64. When preparing to carry out the weighing procedure on an aircraft, which of the following is required?

- a) Drain all engine tank oil
- b) Remove service equipment
- c) Drain all useable fuel
- d) Remove the batteries

65. For a short flight from A to B the pilot extracts the following information from an aeronautical chart: True course: 245°. Magnetic variation: 7° W The magnetic course (MC) equals...

- a) 252°
- b) 245°.
- c) 007°
- d) 238°.

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66. 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

67. In which mentioned situation is the total drag at its minimum?

- a) Induced drag is twice as much as parasite drag
- b) Parasite drag is twice as much as induced drag
- c) Parasite drag is equal to induced drag
- d) Induced drag is smaller than parasite drag

68. Visual illusions are mostly caused by...

- a) Rapid eye movements.
- b) Misinterpretation of the brain.
- c) Colour blindness.
- d) Binocular vision.

69. What does the abbreviation "HX" stand for?

- a) No specific opening hours
- b) Sunrise to sunset
- c) Sunset to sunrise
- d) 24 h service

70. In which phase of flight must the carburettor heating be switched off although carburettor icing might be expected?

- a) During climb
- b) During cruise
- c) During taxi
- d) During take-off

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Schema Risposte

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

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