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NOME ALLIEVO:	DATA & ORA:

01. The term "flight time" is defined as...

- a) The period from the start of the take-off run to the final touchdown when landin
- b) The total time from the first aircraft movement until the moment it finally comes to rest at the end of the flight.
- c) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown. ? the total time f
- d) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown. ? the total time f

02. Which statement about the airflow around an aerofoil is correct if the angle of attack increases?

- a) The stagnation point moves down
- b) The center of pressure moves down
- c) The center of pressure moves up
- d) The stagnation point moves up

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

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

04. What does a readability of 3 indicate?

- a) The transmission is readable now and then
- b) The transmission is perfectly readable
- c) The transmission is readable but with difficulty
- d) The transmission is unreadable

05. A boundary between a cold polar air mass and a warm subtropical air mass showing no horizontal displacement is called...

- a) Cold front
- b) Warm front.
- c) Occluded front.
- d) Stationary front.

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06. What is the period of validity of a private pilot license (PPL)?

- a) Unlimited
- b) 24 months
- c) 48 months
- d) 60 months

07. The pressure compensation between wind upper and lower surface results in ...

- a) Laminar airflow by wing tip vortices.
- b) Profile drag by wing tip vortices.
- c) Induced drag by wing tip vortices.
- d) Lift by wing tip vortices

08. 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

09. What does the abbreviaton "FIR" stand for?

- a) Flight integrity receiver
- b) Flow information radar
- c) Flight information region
- d) Flow integrity required

10. 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.



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11. Which area is suitable for an off-field landing?

- a) Harvested cornfield
- b) Glade with long dry grass
- c) Plowed field
- d) Sports area in a village

12. 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

13. An aircraft is flying at aFL 75 with an outside air temperature (OAT) of -9°C. The QNH altitude is 6500 ft. The	e true
altitude equals	

- a) 6500 ft
- b) 6750 ft
- c) 7000 ft.
- d) 6250 ft.

14. 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

15. What is the purpose of a ground adjustable trim tab?

- a) It is set on the ground to correct an out-of-trim condition arising from the mass and balance situation of an aircraft
- b) It is preset on the ground and further adjusted in flight to reduce the need to constantly re-trim the aircraft
- c) It is used to optimize the handling characteristics of an aircraft during ground operations
- d) It is a non-movable metal tab on a flight control which is adjusted on the ground to optimize the inflight characteristics of an aircraft

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16. In what situation is it appropriate to set the transponder code 7600?

- a) Hijacking
- b) Emergency
- c) Flight into clouds
- d) Loss of radio

17. Stability around which axis is mainly influenced by the center of gravity's longitudinal position?

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

18. In which way is a SEP (land) rating renewed if you do not meet the required flight time?

- a) A proficiency check with an examiner
- b) According to the flight experience there have to be several training flights under supervision of an ATO
- c) The ATO can renew the rating after a training flight with a flight instructor
- d) The required flight experience has to be accumulated under supervision of a flight instructor

19. In airspace "D" a Boeing 737 and a Cessna 152 are flying on crossing courses. Which aeroplane has to divert?

- a) The Cessna 152, because IFR and commercial flights have priority
- b) The air traffic control (ATC) has to decide which one has to divert
- c) The aeroplane flying from right to left has priority, the other one has to divert
- d) The Boeing 737, because an airliner has greater power reserves

20. Which kinds of drag contribute to total drag?

- a) Form drag, skin-friction drag, interference drag
- b) Interference drag and parasite drag
- c) Induced drag, form drag, skin-friction drag
- d) Induced drag and parasite drag



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21. What is the percentage of oxygen in the atmosphere at 6000 ft?

- a) 21 %
- b) 12 %
- c) 78 %
- d) 18.9 %

22. A technical fault requires an emergency off-field landing. Which steps, with respect to the pilot's operating handbook, are necessary?

- a) Inform air traffic control and request technical support, check the pilot's operating handbook for a reference on the matter and execute an emergency landing
- b) Reduce speed and configure the aircraft for landing in an attempt to gain time, declare an emergency, complete the applicable emergency procedure and execute an emergency landing.
- c) Locate a suitable landing area, plan the approach, complete the applicable emergency procedure, declare an emergency, start and concentrate on the approach in due time.
- d) Declare an emergency, complete the applicable emergency procedure, cover as much distance towards the airport as possible to be closer to the rescue forces.

23. 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

24. Wake turbulences develop during take-off just as the aeroplane...

- a) Reaches an altitude of 15 ft.
- b) Lifts off with the main gear.
- c) Lifts off with the front gear.
- d) Accelerates

25. What is the mean height of the tropopause according to ISA (ICAO Standard Atmosphere)?

- a) 18000 ft
- b) 11000 ft
- c) 11000 m
- d) 36000 m



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26. 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

27. What kind of hydraulic oil is used in aeroplane systems today?

- a) Mineral oil
- b) Vegetable oi
- c) Bio-oil
- d) Synthetic oil

28. What values are usually marked with a red line on instrument displays?

- a) Operational limits
- b) Caution areas
- c) Recommended areas
- d) Operational areas

29. Which of the human senses is most influenced by hypoxia?

- a) The oltfactory perception (smell)
- b) The tactile perception (sense of touch)
- c) The auditory perception (hearing)
- d) The visual perception (vision)

30. What is the purpose of winglets?

- a) Increase gliging performance at high speed.
- b) Increase of lift and turning manoeuvering capabilities
- c) To increase efficiency of aspect ratio
- d) Reduction of induced drag



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31. Given:	True course from	A to B: 352°.	Ground distance:	100 NM. GS: 107 kt	. Estimated time of	departure (ETD):
0933 UTC.	The estimated tim	e of arrival (E	TA) is			

- a) 1129 UTC.
- b) 1029 UTC.
- c) 1146 UTC
- d) 1045 UTC.

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

- a) Little sleep.
- b) Alcohol
- c) Smoking.
- d) Unhealthy food.

33. What structural item provides lateral stability to an airplane?

- a) Differential aileron deflection
- b) Wing dihedral
- c) Vertical tail
- d) Elevator

34. "Foehn" conditions usually develop with...

- a) Instability, widespread air blown against a mountain ridge.
- b) Stability, widespread air blown against a mountain ridge.
- c) Instability, high pressure area with calm wind.
- d) Stability, high pressure area with calm wind.

35. What is likely to be the cause if the engine runs unusually rough while checking the magnetos?

- a) Starter is faulty
- b) Sparking plug is defective
- c) Short circuit on the ground cable
- d) Ignition switch is faulty



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36. 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.

37. The symbol labeled (2) as shown in the picture is a / an... See figure (MET-005) (1,00 P.) Siehe Anlage 4

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

38. Where can the type of restriction for a restricted airspace be found?

- a) NOTAM
- b) AIC
- c) ICAO chart 1:500000
- d) AIP

39. What is the distance between the parallels of latitude 48°N and 49°N along a meridian line?

- a) 1 NM
- b) 60 NM
- c) 111 NM
- d) 10 NM

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 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 humidit

42. The elevator deflection during take-off rotation...

- a) Is increased for a front centre of gravity.
- b) Is increased for a rear centre of gravity
- c) Is increased at high speeds.
- d) Is independent of the speed.

43. Who provides search and rescue service?

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

44. 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

45. Which constructive feature is shown in the figure? See figure (PFA-006) L: Lift (1,00 P.) Siehe Anlage 4

- a) Longitudinal stability by wing dihedral
- b) Lateral stability by wing dihedral
- c) Differential aileron deflection
- d) Directional stability by lift generation



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46. Given the following conditions, the climb speed equals... Outside air temperature: -20° C Pressure altitude: 10000 ft See annex (PFP-011) (1,00 P.) Siehe Anlage 11

- a) 200 ft/min
- b) 350 ft/min.
- c) 390 ft/min
- d) 450 ft/min.

47. 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

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

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

49. Which statement about the airflow around an aerofoil is correct if the angle of attack decreases?

- a) The center of pressure moves aft
- b) The stagnation point remains constant
- c) The stagnation point moves down
- d) The center of pressure moves forward

50. 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 %



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

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

52. What is the mass of a "cube of air" with the edges 1 m long, at MSL according ISA?

- a) 1,225 kg
- b) 0,01225 kg
- c) 0,1225 kg
- d) 12,25 kg

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

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

54. Which of the following states the working principle of an airspeed indicator?

- a) Total air pressure is measured and compared against static air pressure.
- b) Total air pressure is measured by the static ports and converted into a speed indication by the airspeed indicator
- c) Dynamic air pressure is measured by the Pitot tube and converted into a speed indication by the airspeed indicator
- d) Static air pressure is measured and compared against a vacuum

55. The angle between compass north and magnetic north is called...

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



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56. 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

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

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

58. 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

59. What is referred to as mountain wind?

- a) Wind blowing uphill from the valley during daytime
- b) Wind blowing uphill from the valley during the night
- c) Wind blowing down the mountain side during the night
- d) Wind blowing down the mountain side during daytime.

60. What visual flight conditions can be expected within the warm sector of a polar front low during summer time?

- a) Visibilty less than 1000 m, cloud-covered ground
- b) Good visibility, some isolated high clouds
- c) Moderate to good visibility, scattered clouds
- d) Moderate visibility, heavy showers and thunderstorms

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61. 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.

62. What conditions are favourable for the formation of thunderstorms?

- a) Warm humid air, conditionally unstable environmental lapse rate
- b) Calm winds and cold air, overcast cloud cover with St or As
- c) Clear night over land, cold air and patches of fog
- d) Warm and dry air, strong inversion layer

63. Rotation around the lateral axis is called...

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

64. How does wind affect the take-off performance?

- a) Tailwind aids the aircraft in overcoming the initial drag at the commencement of the take-off roll. The take-off distance will decrease
- b) Tailwind reduces the relative wind on the airfoil. The take-off distance will increase
- c) Headwind causes an increased airflow around the wing. The take-off distance will increase
- d) Headwind imposes an increased drag on the aircraft. The take-off distance will increase

65. The angle between the magnetic course and the true course is called...

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

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66. How are rhumb lines and great circles depicted on a direct Mercator chart?

- a) Rhumb lines: curved lines Great circles: straight lines
- b) Rhumb lines: curved lines Great circles: curved lines
- c) Rhumb lines: straight lines Great circles: curved lines
- d) Rhumb lines: straight lines Great circles: straight lines

67. What is the correct course of action when experiencing a radio failure in class D airspace?

- a) The flight has to be continued above 5000 feet complying with VFR flight rules or the airspace has to be left by the shortest route
- b) The flight has to be continued according to the last clearance complying with VFR rules or the airspace has to be left by the shortest route
- c) The flight has to be continued above 5000 feet complying with VFR flight rules or the airspace has to be left using a standard routing
- d) The flight has to be continued according to the last clearance complying with VFR flight rules or the airspace has to be left using a standard routing

68. The term "maximum elevation figure" (MEF) is defined as...

- a) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude.
- b) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude plus a safety margin, rounded to the next higher 100 ft.
- c) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude plus a safety margin of 1000 ft (305 m), rounded to the next higher 100 ft
- d) The highest elevation within an area covering 1 degree of latitude and 1 degree of longitude plus a safety margin, rounded to the next lower 100 ft.

69. 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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70. With Central European Summer Time (CEST) given as UTC+2, what UTC time corresponds to 1600 CEST?

- a) 1600 UTC.
- b) 1500 UTC.
- c) 1700 UTC.
- d) 1400 UTC.



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Schema Risposte

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

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