

Exam simulation

SPL - Sailplane Pilot License, 120 questions on 120 minutes!



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STUDENT NAME:

DATE AND TIME:

01. What is the primary purpose of an aircraft accident investigation?

- a) To identify the reasons and work out safety recommendations
- b) To clarify questions of liability within the meaning of compensation for passengers
- c) To work for the public prosecutor and help to follow-up flight accidents
- d) To determine the guilty party and draw legal consequences

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 centre of pressure moves down
- c) The centre of pressure moves up
- d) The stagnation point moves up

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

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

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

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

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05. During a flight in an air mass with a temperature equal to ISA and the QNH set correctly, the indicated altitude is...

- a) Lower than the true altitude
- b) Equal to the standard atmosphere
- c) Higher than the true altitude
- d) Equal to the true altitude

06. During a cross-country flight, you approach a downwind turning point. The point should be taken...

- a) As low as possible
- b) As steep as possible
- c) As high as possible
- d) With as little bank as possible

07. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are TH and VAR?

- a) TH: 194°. VAR: 004° E
- b) TH: 194°. VAR: 004° W
- c) TH: 172°. VAR: 004° W
- d) TH: 172°. VAR: 004° E

08. What does a readability of 3 indicate?

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

09. An aircraft travels 100 km in 56 minutes. The ground speed (GS) equals...

- a) 93 kt
- b) 107 km/h
- c) 198 kt
- d) 58 km/h

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10. The validity of a medical examination certificate class 2 for a 62 years old pilot is...

- a) 12 Months
- b) 48 Months
- c) 24 Months
- d) 60 Months

11. During a flight at FL 80, the altimeter setting has to be...

- a) Local QFE
- b) Local QNH
- c) 1030.25 hPa
- d) 1013.25 hPa

12. When do you expect wind shear?

- a) During an inversion
- b) When passing a warm front
- c) During a summer day with calm winds
- d) In calm wind in cold weather

13. Assume two arbitrary points A and B on the same parallel of latitude, but not on the equator. Point A is located on 010°E and point B on 020°E. The rhumb line distance between A and B is always...

- a) Less than 300 NM
- b) Less than 600 NM
- c) More than 600 NM
- d) More than 300 NM

14. Unless the aircraft is equipped and certified accordingly...

- a) Flight into forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, the flight may be continued as long as visual meteorological conditions are maintained.
- b) Flight into known or forecast icing conditions is only allowed as long as it is ensured that the aircraft can still be operated without performance degradation.
- c) Flight into known or forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, it should be left without delay
- d) Flight into areas of precipitation is prohibited.

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15. What is the correct way of acknowledging the instruction "Next report PAH"?

- a) Positive
- b) Wilco
- c) Report PAH
- d) Roger

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

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

17. The term "moment" with regard to a mass and balance calculation is referred to as...

- a) Sum of a mass and a balance arm
- b) Difference of a mass and a balance arm
- c) Quotient of a mass and a balance arm
- d) Product of a mass and a balance arm

18. On approach, wind shear suddenly decreases the tailwind. Without pilot correction, what is the immediate effect?

- a) The approach path becomes lower and IAS decreases.
- b) The approach path becomes lower and IAS increases.
- c) The approach path becomes higher and IAS increases.
- d) The approach path remains unchanged and only groundspeed changes.

19. During a cross-country flight, visual meteorological conditions tend to become below minimum conditions. To continue the flight according to minimum visual conditions, the pilot decides to...

- a) Continue the flight referring to sufficient forecasts
- b) Turn back due to sufficient visual meteorological conditions along the previous track
- c) Continue the flight using radio navigational features along the track
- d) Continue the flight using navigational aid by ATC

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20. What phrase is used by a pilot if a transmission is to be answered with "yes"?

- a) Affirm
- b) Yes
- c) Affirmative
- d) Roger

21. Urgency messages are messages...

- a) Sent by a pilot or aircraft operating agency with operational information for aircraft in flight.
- b) Concerning aircraft and occupants facing grave and imminent danger and requiring immediate assistance.
- c) Concerning the operation or maintenance of facilities essential for flight safety or regularity.
- d) Concerning the safety of an aircraft, vessel, vehicle or person, but not requiring immediate distress assistance.

22. Which transponder code should be set during a radio failure without any request?

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

23. Which of the following conditions are most favourable for ice accretion?

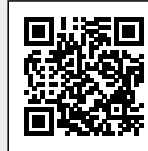
- a) Temperatures between 0° C and -12° C, presence of supercooled water droplets (clouds)
- b) Temperatures below 0° C, strong wind, sky clear of clouds
- c) Temperatures between -20° C and -40° C, presence of ice crystals (Ci clouds)
- d) Temperatures between +10° C and -30° C, presence of hail (clouds)

24. Which design feature can compensate for adverse yaw?

- a) Wing dihedral
- b) Full deflection of the aileron
- c) Aileron trim
- d) Differential aileron deflection

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25. Information about pressure patterns and frontal situation can be found in which chart?

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

26. A pilot can contact FIS (flight information service)...

- a) By a personal visit
- b) Via telephone
- c) Via radio communication
- d) Via internet

27. The shown NOTAM is valid until... A) 1024/25 A) LOWW B) 2505211200 C) 2505211400 E) STOCKERAU VOR STO 113.00 UNSERVICEABLE.

- a) 13/10/2025 00:00 UTC
- b) 21/05/2026 13:00 UTC
- c) 21/05/2025 14:00 UTC
- d) 13/05/2025 12:00 UTC

28. The term 'magnetic course' (MC) is defined as...

- a) The direction from an arbitrary point on Earth to the magnetic north pole
- b) The angle between magnetic north and the course line
- c) The angle between true north and the course line
- d) The direction from an arbitrary point on Earth to the geographic North Pole

29. What is the gas composition of "air"?

- a) Oxygen 78 % Water vapour 21 % Nitrogen 1 %
- b) Oxygen 21 % Nitrogen 78 % Noble gases / carbon dioxide 1 %
- c) Oxygen 21 % Water vapour 78 % Noble gases / carbon dioxide 1 %
- d) Nitrogen 21 % Oxygen 78 % Noble gases / carbon dioxide 1 %

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

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

31. The character of an air mass is given by what properties?

- a) Wind speed and tropopause height
- b) Environmental lapse rate at origin
- c) Region of origin and track during movement
- d) Temperatures at origin and present region

32. An inversion is a layer ...

- a) With constant temperature with increasing height
- b) With increasing pressure with increasing height
- c) With increasing temperature with increasing height
- d) With decreasing temperature with increasing height

33. Which transponder code indicates a loss of radio communication?

- a) 2000
- b) 7600
- c) 7000
- d) 7700

34. Which of the following is NOT a symptom of hyperventilation?

- a) Cyanosis
- b) Disturbance of consciousness
- c) Spasm
- d) Tingling

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35. The balance arm is the horizontal distance between...

- a) The C.G. of a mass and the rear C.G. limit
- b) The front C.G. limit and the datum line
- c) The front C.G. limit and the rear C.G. limit
- d) The C.G. of a mass and the datum line

36. Urgency messages are defined as...

- a) Messages concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance
- b) Messages concerning urgent spare parts which are needed for a continuation of flight and which need to be ordered in advance
- c) Information concerning the apron personnel and which imply an imminent danger to landing aircraft
- d) Messages concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight

37. Where is interference drag generated?

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

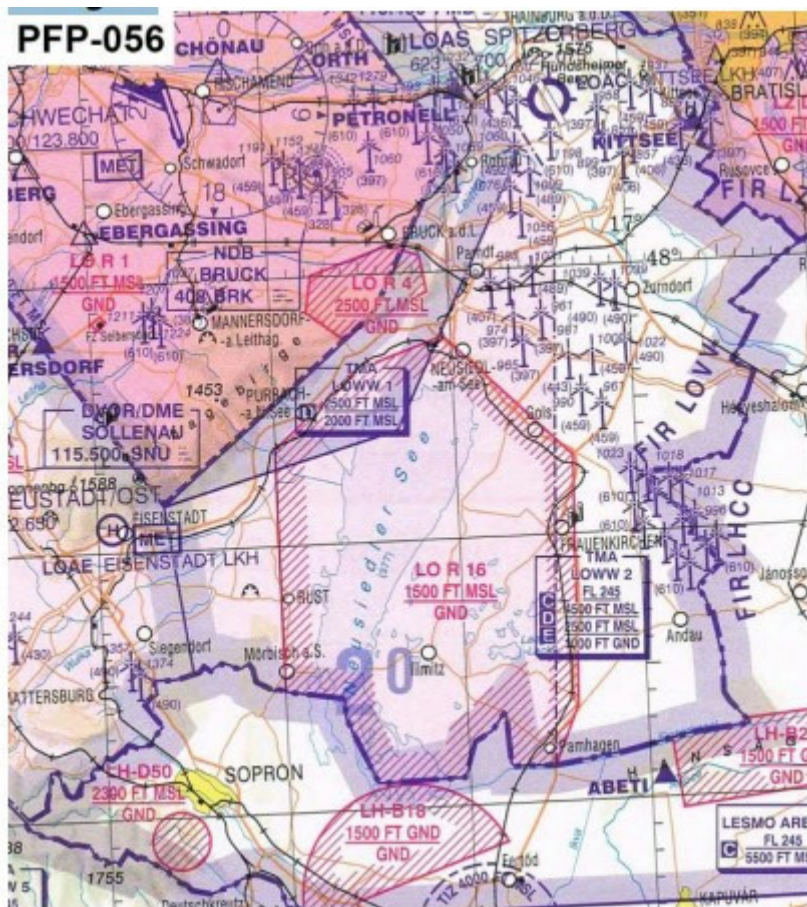
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38. The upper limit of LO R 16 equals... See annex (PFP-056)



- a) 1.500 ft GND
- b) 1 500 ft MSL
- c) 1 500 m MSL
- d) FL150

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

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

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40. Which validity does the "Certificate of Airworthiness" have?

- a) Unlimited
- b) 12 years
- c) 6 months
- d) 12 months

41. What is an indication for a macho attitude?

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

42. What cloud type can typically be observed across widespread high pressure areas during summer?

- a) Overcast low stratus
- b) Scattered Cu clouds
- c) Overcast Ns clouds
- d) Squall lines and thunderstorms

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

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

44. What is shown by a profile polar?

- a) Ratio between minimum rate of descent and best glide
- b) Ratio between total lift and drag depending on angle of attack
- c) Ratio of c_A and c_D at different angles of attack
- d) Lift coefficient c_A at different angles of attack

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

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

46. Regarding the communication model, how can the use of the same code during radio communication be ensured?

- a) By the use of proper headsets
- b) By a particular frequency allocation
- c) By the use of radio phraseology
- d) By using radios certified for aviation use only

47. What is the correct way of acknowledging the instruction "DZF after lift-off climb straight ahead until 2500 feet before turning right heading 220 degrees, wind 090 degrees, 5 knots, runway 12, cleared for take-off"?

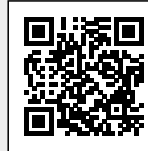
- a) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots
- b) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots, cleared for take-off
- c) DZF after lift-off climb straight ahead 2500 feet, wilco, heading 220 degrees, 090 degrees, 5 knots, cleared for take-off
- d) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, runway 12, cleared for take-off

48. A sailplane is about to pitch down due to stall. What rudder input can prevent nose-dive and spin?

- a) Ailerons neutral, rudder strongly kicked to lower wing
- b) Release elevator, rudder opposite to lower wing
- c) Keep aeroplane in level flight using rudder pedals
- d) Slightly pull the elevator, ailerons opposite to lower wing

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49. In straight and level flight with constant performance of the engine, the angle of attack at the wing is...

- a) Smaller than in a descent
- b) Greater than in a climb
- c) Greater than at take-off
- d) Smaller than in a climb

50. London (EGLL) is located at 000° 10'W, Cardiff (EGFF) at 003° 44'W. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between London and Cardiff?

- a) In London the sunrise is 4 minutes later and sunset is 4 minutes earlier than in Cardiff
- b) In London the sunrise and sunset are about 14 minutes earlier than in Cardiff
- c) In London the sunrise and sunset are about 4 minutes later than in Cardiff
- d) In London the sunrise is 14 minutes earlier and sunset is 14 minutes later than in Cardiff

51. The drag coefficient...

- a) Is proportional to the lift coefficient
- b) Increases with increasing airspeed
- c) May range from zero to an infinite positive value
- d) Cannot be lower than a non-negative, minimal value

52. The thickness of the wing is defined as the distance between the lower and the upper side of the wing at the...

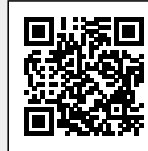
- a) Thinnest part of the wing
- b) Most inner part of the wing
- c) Thickest part of the wing
- d) Most outer part of the wing

53. What is the best combination of traits with respect to the individual attitude and behaviour for a pilot?

- a) Introverted - stable
- b) Introverted - unstable
- c) Extroverted - stable
- d) Extroverted - unstable

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54. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?

- a) The deviation of the bar from the centre indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS
- b) The deviation of the bar from the centre indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS
- c) The deviation of the bar from the centre indicates the track error as angular distance in degrees; the scale for full deflection is $\pm 10^\circ$
- d) The deviation of the bar from the centre indicates the track error as absolute distance in NM; the scale for full deflection is ± 10 NM

55. The sun moves 10° of longitude. What is the difference in time?

- a) 0.66 h
- b) 0.4 h
- c) 1 h
- d) 0.33 h

56. What is an appropriate reaction when a passenger during cruise flight suddenly feels uncomfortable?

- a) Avoid conversation and choose a higher airspeed
- b) Adjust cabin temperature and prevent excessive bank
- c) Switch on the heater blower and provide thermal blankets
- d) Give additional oxygen and avoid low load factors

57. What is the meaning of the abbreviation "SERA"?

- a) Selective Radar Altimeter
- b) Standardized European Rules of the Air
- c) Standard European Routes of the Air
- d) Specialized Radar Approach

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58. When airtowing using side-located latch, the sailplane tends to...

- a) Show particularly stable flight characteristics
- b) Quickly turn around longitudinal axis
- c) Show enhanced pitch up moment
- d) Show enhanced turn to latch-mounted side

59. What is the function of the horizontal tail (among other things)?

- a) To stabilise the aeroplane around the longitudinal axis
- b) To stabilise the aeroplane around the lateral axis
- c) To initiate a curve around the vertical axis
- d) To stabilise the aeroplane around the vertical axis

60. After landing, you realize you lost your pen which might have fallen down in the cockpit of the sailplane. What has to be considered?

- a) Lighter, loose bodies in the fuselage can be considered uncritical
- b) Before next take-off, the cockpit has to be firmly inspected for loose bodies
- c) A flight without a pen at hand is not permitted
- d) Succeeding pilots have to be informed about that

61. Which statement regarding a spin is correct?

- a) During recovery the ailerons should be kept neutral
- b) During the spin the speed constantly increases
- c) During recovery the ailerons should be crossed
- d) Only very old aeroplanes have a risk of spinning

62. 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 higher speed
- c) The aircraft flying at higher altitude
- d) The aircraft flying at slower speed

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63. What has to be checked before any change in direction during glide?

- a) Check for turn to be flown coordinated
- b) Check for thermal clouds
- c) Check for loose object secured
- d) Check for free airspace in desired direction

64. With decreasing air density the airflow speed increases at stall speed (TAS) and vice versa. How has a final approach to be conducted on a hot summer day?

- a) With increased speed indication (IAS)
- b) With unchanged speed indication (IAS)
- c) With decreased speed indication (IAS)
- d) With additional speed according POH

65. Of what shape is a landing direction indicator?

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

66. The laminar boundary layer on the aerofoil is located between...

- a) The stagnation point and the centre of pressure
- b) The stagnation point and the transition point
- c) The transition point and the separation point
- d) The transition point and the centre of pressure

67. Which answer is correct concerning stress?

- a) Everybody reacts to stress in the same manner
- b) Stress and its different symptoms are irrelevant for flight safety
- c) Stress can occur if there seems to be no solution for a given problem
- d) Training and experience have no influence on the occurrence of stress

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68. What impression may be caused when approaching a runway with an upslope?

- a) An undershoot
- b) A landing beside the centreline
- c) An overshoot
- d) A hard landing

69. Which statement is correct with regard to the polar axis of the Earth?

- a) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is perpendicular to the plane of the equator
- b) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is at an angle of 66.5° to the plane of the equator
- c) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is at an angle of 23.5° to the plane of the equator
- d) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is perpendicular to the plane of the equator

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

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

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

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

72. When air masses meet each other head on, how is this referred to and what air movements will follow?

- a) Convergence resulting in air being lifted
- b) Divergence resulting in air being lifted
- c) Convergence resulting in sinking air
- d) Divergence resulting in sinking air

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73. A pilot licence issued in accordance with ICAO Annex 1 is valid in...

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

74. 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

75. Using annex PFP-061, which ICAO chart symbol indicates a group of unlighted obstacles?

- A
- B
- C
- D

PFP-061

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

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76. Which item from an aerodrome information transmission does not normally require readback?

- a) Runway in use
- b) Altitude
- c) Wind
- d) SSR code

77. 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) 6° left
- b) 14° left
- c) 8° left
- d) 15° left

78. When a pilot gets into a strong downwind area during slope soaring, what action should be recommended?

- a) Continue flight, downwinds around mountains only occur shortly
- b) Increase speed and head away from the ridge
- c) Increase speed and conduct landing parallel to ridge
- d) Increase speed and get closer to the ridge

79. What is the correct way of using the aircraft call sign at first contact?

- a) Using the last two characters only
- b) Using all characters
- c) Using the first three characters only
- d) Using the first two characters only

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

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

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81. 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) Access restrictions for airfields, passenger controls, requirements for pilots, licence samples and validity periods
- c) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees
- d) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces

82. In which situation is radio mandatory zone (RMZ) entry allowed without establishing radio contact?

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

83. What is the minimum flight visibility in airspace "E" for an aircraft operating under VFR at FL75?

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

84. Which effect does a decreasing airspeed have on the induced drag during a horizontal and stable cruise flight?

- a) The induced drag will slightly decrease
- b) The induced drag will collapse
- c) The induced drag will increase
- d) The induced drag will remain constant

85. The pressure compensation between wing upper and lower surfaces results in ...

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

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86. What change of wind direction can be expected during the passage of a polar front low in Central Europe?

- a) Backing wind during passage of the warm front, veering wind during passage of the cold front
- b) Veering wind during passage of the warm front, veering wind during passage of the cold front
- c) Veering wind during passage of the warm front, backing wind during passage of the cold front
- d) Backing wind during passage of the warm front, backing wind during passage of the cold front

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

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

88. What is the meaning of the phrase "Correction"?

- 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...

89. For TC 040°, TAS 180 kt and wind 350°/30 kt, how should the wind correction be expressed in plain language?

- a) 7° left
- b) 7° right
- c) 3° right
- d) 3° left

90. With other factors remaining constant, decreasing temperature results in...

- a) Decreasing spread and increasing relative humidity.
- b) Increasing spread and increasing relative humidity.
- c) Decreasing spread and decreasing relative humidity.
- d) Increasing spread and decreasing relative humidity.

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

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

92. How can a wind direction indicator be marked for better visibility?

- a) The wind direction indicator may be mounted on top of the control tower
- b) The wind direction indicator could be made from green materials
- c) The wind direction indicator could be surrounded by a white circle
- d) The wind direction indicator could be located on a big black surface

93. Under which circumstances is it more likely to accept higher risks?

- a) Due to group-dynamic effects
- b) If there is not enough information available
- c) During check flights due to a high level of nervousness
- d) During flight planning when excellent weather is forecast

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

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

95. What has to be considered for the speed during approach and landing?

- a) Wind speed and weight
- b) Altitude and weight
- c) Wind speed and Altitude
- d) Weight and wind speed

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96. What phenomenon is caused by cold air downdrafts with precipitation from a fully developed thunderstorm cloud?

- a) Electrical discharge
- b) Anvil-head top of Cb cloud
- c) Gust front
- d) Freezing Rain

97. The empty weight and the corresponding centre of gravity (CG) of an aircraft are initially determined...

- a) By weighing
- b) By calculation
- c) For one aircraft of a type only, since all aircraft of the same type have the same mass and CG position
- d) Through data provided by the aircraft manufacturer.

98. During a flight in colder-than-ISA air the indicated altitude is...

- a) Higher than the true altitude
- b) Equal to the true altitude
- c) Equal to the standard altitude
- d) Lower than the true altitude

99. Which approximate, geometrical form describes the shape of the Earth best for navigation systems?

- a) Sphere of ecliptical shape
- b) Flat plate
- c) Perfect sphere
- d) Ellipsoid

100. The angle of descent is defined as...

- a) The ratio between the change in height and the horizontal distance travelled within the same time, expressed in percent [%]
- b) The angle between a horizontal plane and the actual flight path, expressed in degrees [°]
- c) The angle between a horizontal plane and the actual flight path, expressed in percent [%]
- d) The ratio between the change in height and the horizontal distance travelled within the same time, expressed in degrees [°]

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101. 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 higher 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 lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended
- c) 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
- d) 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

102. An aircraft must be loaded and operated in such a way that the centre of gravity (CG) stays within the approved limits during all phases of flight. This is done to ensure...

- a) That the aircraft does not exceed the maximum permissible airspeed during a descent
- b) Both stability and controllability of the aircraft
- c) That the aircraft does not tip over on its tail while it is being loaded.
- d) That the aircraft does not stall.

103. During airtow, the sailplane exceeds its maximum permissible speed. What action should be taken by the glider pilot?

- a) Extend spoiler flaps
- b) Message to airfield controller via radio
- c) Pull elevator to reduce speed
- d) Decouple cable immediately

104. After getting around a turning point, what should a glider pilot be prepared for?

- a) For weakening thermals due to the progressing time
- b) For a changed horizontal picture due to lower cloud bases
- c) For increased cloud dissipation due to the progressing time
- d) For a changed cloud picture due to the apparently changed position of the sun

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105. What can be expected for the prevailing wind with isobars on a surface weather chart showing large distances?

- a) Low pressure gradients resulting in low prevailing wind
- b) Strong pressure gradients resulting in low prevailing wind
- c) Strong pressure gradients resulting in strong prevailing wind
- d) Low pressure gradients resulting in strong prevailing wind

106. Which of the following factors affects the reception of VHF transmissions?

- a) Height of ionosphere
- b) Altitude
- c) Twilight error
- d) Shoreline effect

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

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

108. 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?

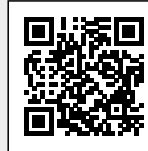
- a) The trim tab moves up, the elevator moves down
- b) The trim tab moves down, the elevator moves up
- c) The trim tab moves up, the elevator moves up
- d) The trim tab moves down, the elevator moves down

109. The glide ratio of a sailplane can be improved by which measures?

- a) Higher aeroplane mass, thin airfoil, taped gaps between wing and fuselage
- b) Lower aeroplane mass, correct speed, retractable gear
- c) Cleaning, correct speed, retractable gear, taped gaps between wing and fuselage
- d) Forward C.G. position, correct speed, taped gaps between wing and fuselage

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

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

111. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +11°C. The QNH altitude is 6500 ft. The true altitude equals...

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

112. An aeroplane has a heading of 090°. The distance which has to be flown is 90 NM. After 45 NM the aeroplane is 4.5 NM north of the planned flight path. What is the corrected heading to reach the arrival aerodrome directly?

- a) 18° to the right
- b) 9° to the right
- c) 6° to the right
- d) 12° to the right

113. What chart shows areas of precipitation?

- a) Satellite picture
- b) Wind chart
- c) Radar picture
- d) GAFOR

114. Flying with speeds higher than the never-exceed-speed (vNE) may result in...

- a) Reduced drag with increased control forces
- b) An increased lift-to-drag ratio and a better glide angle
- c) Too high total pressure resulting in an unusable airspeed indicator
- d) Flutter and mechanically damaging the wings

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115. Which transponder code indicates a radio failure?

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

116. The mass loaded on the plane is lower than the minimum load required by the load sheet. What action has to be taken?

- a) Trim aircraft to "pitch down"
- b) Change pilot seat position
- c) Change incident angle of elevator
- d) Load ballast weight up to minimum load

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

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

118. Which processes result in decreasing air density?

- a) Decreasing temperature, increasing pressure
- b) Increasing temperature, increasing pressure
- c) Increasing temperature, decreasing pressure
- d) Decreasing temperature, decreasing pressure

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

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

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120. The term "ceiling" is defined as the...

- a) Height of the base of the highest layer of clouds covering more than half of the sky below 20000 ft
- b) Height of the base of the lowest layer of clouds covering more than half of the sky below 10000 ft
- c) Height of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft
- d) Altitude of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft

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Response Scheme

Compare your answers with the following diagram and mark your score!

01: A	02: A	03: A	04: D
05: D	06: C	07: B	08: D
09: B	10: A	11: D	12: A
13: B	14: C	15: B	16: D
17: D	18: C	19: B	20: A
21: D	22: B	23: A	24: D
25: D	26: C	27: C	28: B
29: B	30: B	31: C	32: C
33: B	34: A	35: D	36: D
37: C	38: B	39: C	40: A
41: A	42: B	43: B	44: C
45: C	46: C	47: D	48: B
49: D	50: B	51: D	52: C
53: C	54: B	55: A	56: B
57: B	58: C	59: B	60: B
61: A	62: D	63: D	64: B
65: A	66: B	67: C	68: C
69: A	70: C	71: A	72: A
73: C	74: B	75: D	76: C
77: B	78: B	79: B	80: C
81: C	82: D	83: D	84: C

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85: A	86: B	87: D	88: D
89: A	90: A	91: A	92: C
93: A	94: D	95: D	96: C
97: A	98: A	99: D	100: B
101: A	102: B	103: D	104: D
105: A	106: B	107: D	108: B
109: C	110: D	111: D	112: D
113: C	114: D	115: D	116: D
117: D	118: C	119: C	120: C

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Response form

Use this form to mark your answers

01: _____	02: _____	03: _____	04: _____
05: _____	06: _____	07: _____	08: _____
09: _____	10: _____	11: _____	12: _____
13: _____	14: _____	15: _____	16: _____
17: _____	18: _____	19: _____	20: _____
21: _____	22: _____	23: _____	24: _____
25: _____	26: _____	27: _____	28: _____
29: _____	30: _____	31: _____	32: _____
33: _____	34: _____	35: _____	36: _____
37: _____	38: _____	39: _____	40: _____
41: _____	42: _____	43: _____	44: _____
45: _____	46: _____	47: _____	48: _____
49: _____	50: _____	51: _____	52: _____
53: _____	54: _____	55: _____	56: _____
57: _____	58: _____	59: _____	60: _____
61: _____	62: _____	63: _____	64: _____
65: _____	66: _____	67: _____	68: _____
69: _____	70: _____	71: _____	72: _____
73: _____	74: _____	75: _____	76: _____
77: _____	78: _____	79: _____	80: _____
81: _____	82: _____	83: _____	84: _____

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85: _____	86: _____	87: _____	88: _____
89: _____	90: _____	91: _____	92: _____
93: _____	94: _____	95: _____	96: _____
97: _____	98: _____	99: _____	100: _____
101: _____	102: _____	103: _____	104: _____
105: _____	106: _____	107: _____	108: _____
109: _____	110: _____	111: _____	112: _____
113: _____	114: _____	115: _____	116: _____
117: _____	118: _____	119: _____	120: _____