

Exam simulation

SPL - Sailplane Pilot License - Human Performance and limitations



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STUDENT NAME:

DATE AND TIME:

01. 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

02. 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

03. Which is the purpose of the altimeter subscale?

- a) To correct the altimeter reading for system errors
- b) To reference the altimeter reading to a predetermined level such as mean sea level, aerodrome level or pressure level 1013.25 hPa
- c) To set the reference level for the altitude decoder of the transponder
- d) To adjust the altimeter reading for non-standard temperature

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

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

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05. What is the meaning of the phrase "Approved"?

- a) I understand your message and will comply with it
- b) Permission for proposed action is granted
- c) I have received all of your last transmission
- d) An error has been made in this transmission. The correct version is...

06. Which force causes "wind"?

- a) Centrifugal force
- b) Pressure gradient force
- c) Coriolis force
- d) Thermal force

07. 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

08. A risk factor for decompression sickness is...

- a) Sports
- b) 100 % oxygen after decompression
- c) Scuba diving prior to flight.
- d) Smoking

09. What negative impacts may be expected during circling overhead industrial facilities?

- a) Health impairments by pollutants, reduced visibility and turbulences
- b) Strong electrostatic charging and deterioration in radio communication
- c) Very poor visibility of only few hundred meters and heavy precipitation
- d) Extended, strong downwind areas on the lee side of the facility

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10. Which of the following is responsible for the blood coagulation?

- a) Capillaries of the arteries
- b) Red blood cells (erythrocytes)
- c) Blood plates (thrombocytes)
- d) White blood cells (leucocytes)

11. 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

12. What is the purpose of "interception lines" in visual navigation?

- a) They are used as easily recognizable guidance upon a possible loss of orientation
- b) They help to continue the flight when flight visibility drops below VFR minima
- c) To mark the next available en-route airport during the flight
- d) To visualize the range limitation from the departure aerodrome

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

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

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

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

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15. Deflecting the rudder to the left causes...

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

16. 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

17. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PFP-024)

A4604/11 NOTAMN

Q)

EDWW/QROLP/IV/NBO/W/000/095/5155N01037E004

A) EDWW

B) 1111180800 C) 1111181200

E) OVERFLYING PROHIBITED FOR ALL TRAFFIC RADIUS
3.35NM CENTERED AROUND 515436N 0103725E DUE
TO DEMOLITION OF EXPLOSIVES AT ECKERTHAL,
(25NM S BRAUNSCHWEIG NDB BRU).

F) GND

G) 9500 FT AMSL

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

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18. What engine design at a Touring Motor Glider (TMG) results in least drag?

- a) Engine and propeller mounted fixed on the fuselage
- b) Engine and propeller mounted stowable on the fuselage
- c) Engine and propeller mounted fixed at the aircraft's nose
- d) Engine and propeller mounted fixed at the horizontal stabilizer

19. Which are the properties of a Mercator chart?

- a) The scale is constant, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- b) The scales increases with latitude, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- c) The scales increases with latitude, great circles are depicted as straight lines, rhumb lines are depicted as curved lines
- d) The scale is constant, great circles are depicted as straight lines, rhumb lines are depicted as curved lines

20. A Pre-Flight Information Bulletin (PIB) is a presentation of current...

- a) AIC information of operational significance prepared after the flight
- b) AIP information of operational significance prepared prior to flight
- c) NOTAM information of operational significance prepared prior to flight
- d) ICAO information of operational significance prepared after the flight

21. During a left turn, the yaw string is drawn to the left from centre position. By what rudder input can the string be centred again?

- a) More bank, less rudder in turn direction
- b) Less bank, more rudder in turn direction
- c) Less bank, less rudder in turn direction
- d) More bank, more rudder in turn direction

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

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

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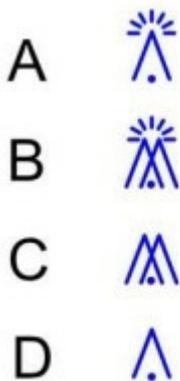


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23. Which air traffic services can be expected within an FIR (flight information region)?

- a) FIS (flight information service) ALR (alerting service)
- b) ATC (air traffic control) FIS (flight information service)
- c) ATC (air traffic control) AIS (aeronautical information service)
- d) AIS (aeronautical information service) SAR (search and rescue)

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



PFP-061

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

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

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

26. Who provides search and rescue service?

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

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27. A precautionary landing is a landing...

- a) Conducted with the flaps retracted
- b) Conducted without power from the engine
- c) Conducted in response to circumstances forcing the aircraft to land
- d) Conducted in an attempt to sustain flight safety

28. 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

29. During a winch launch, just after stabilizing full climb attitude, the pull on cable suddenly stops. What action should be taken by the glider pilot?

- a) Push slightly, wait for pull on cable to be re-established
- b) Inform winch driver by alternate aileron input
- c) Push firmly and decouple cable immediately
- d) Pull on elevator to increase cable tension

30. 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

31. What kind of reduction in visibility is not very sensitive to changes in temperature?

- a) Radiation fog (FG)
- b) Mist (BR)
- c) Patches of fog (BCFG)
- d) Haze (HZ)

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32. What is the difference in time when the sun moves 10° of longitude?

- a) 0:04 h
- b) 1:00 h
- c) 0:40 h
- d) 0:30 h

33. What is the correct way of establishing radio communication between D-EAZF and Dusseldorf Tower?

- a) Dusseldorf Tower over
- b) Dusseldorf Tower D-EAZF
- c) D-EAZF Dusseldorf Tower
- d) Tower from D-EAZF

34. Which advisory information from a ground station does not normally require readback?

- a) Altimeter setting
- b) Traffic information
- c) Heading
- d) Taxi instructions

35. What pressure pattern may result from cold-air inflow in high tropospheric layers?

- a) Alternating pressure
- b) Formation of a large ground low
- c) Formation of a high in the upper troposphere
- d) Formation of a low in the upper troposphere

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

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

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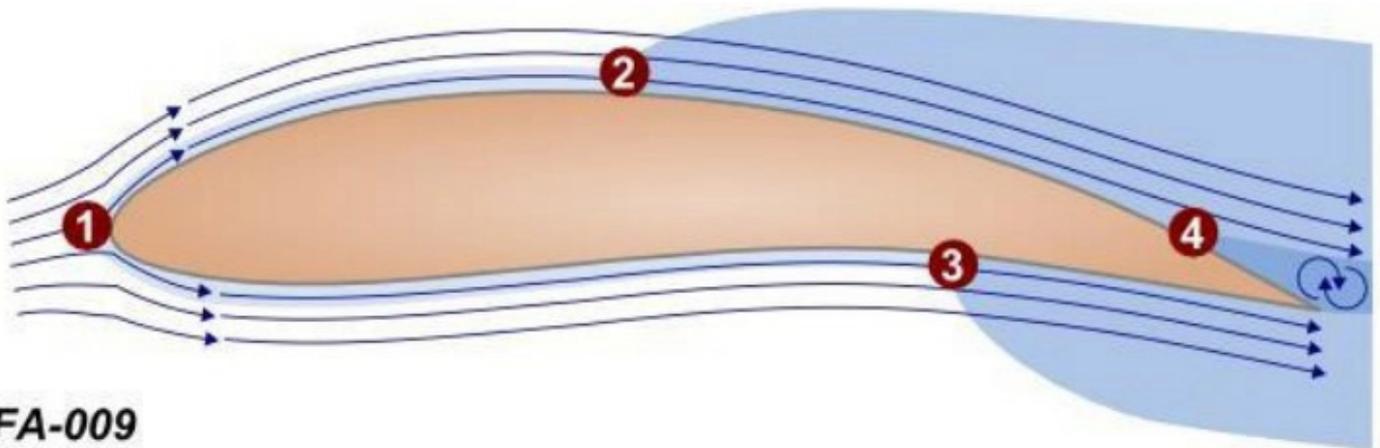
37. Where are the two polar circles?

- a) 23.5° north and south of the poles
- b) 23.5° north and south of the equator
- c) At a latitude of 20.5°S and 20.5°N
- d) 20.5° south of the poles

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

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

39. Which point on the aerofoil is represented by number 3? See figure (PFA-009)



- a) Stagnation point
- b) Separation point
- c) Centre of pressure
- d) Transition point

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40. A flight level is a...

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

41. Using annex PFP-063, which ICAO chart symbol indicates a general spot elevation?

- A 300
- B (300)
- C • 1737
- D • 1737

PFP-063

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

42. What does a cloud coverage of "BKN" mean in a METAR weather report?

- a) 1 to 2 eighths
- b) 5 to 7 eighths
- c) 3 to 4 eighths
- d) 8 eighths

43. When trimming an aircraft nose up, in which direction does the trim tab move?

- a) It moves down
- b) In direction of rudder deflection
- c) It moves up
- d) Depends on CG position

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44. 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) 238°
- b) 245°
- c) 252°
- d) 007°

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

- a) 270°
- b) 030°
- c) 360°
- d) 330°

46. An inversion layer close to the ground can be caused by...

- a) Thickening of clouds in medium layers.
- b) Large-scale lifting of air
- c) Intensifying and gusting winds.
- d) Ground cooling during the night.

47. The barometric altimeter with QNH setting indicates...

- a) True altitude above MSL.
- b) Height above MSL
- c) Height above the pressure level at airfield elevation.
- d) Height above standard pressure 1013.25 hPa.

48. The saturated adiabatic lapse rate is...

- a) Equal to the dry adiabatic lapse rate.
- b) Higher than the dry adiabatic lapse rate.
- c) Proportional to the dry adiabatic lapse rate.
- d) Lower than the dry adiabatic lapse rate.

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49. Which of the following options states the working principle of a vertical speed indicator?

- a) Measuring the present static air pressure and comparing it to the static air pressure inside a reservoir
- b) Measuring the vertical acceleration through the displacement of a gimbal-mounted mass
- c) Total air pressure is measured and compared to static pressure
- d) Static air pressure is measured and compared against a vacuum

50. The ratio of span and mean chord length is referred to as...

- a) Trapezium shape
- b) Tapering
- c) Aspect ratio
- d) Wing sweep

51. How are two parallel runways designated?

- a) The left runway gets the suffix "L", the right runway remains unchanged
- b) The left runway gets the suffix "L", the right runway "R"
- c) The left runway remains unchanged, the right runway designator is increased by 1
- d) The left runway gets the suffix "-1", the right runway "-2"

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

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

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

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

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54. 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

55. 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

56. Which of the stated surfaces will reduce the wind speed most due to ground friction?

- a) Flat land, lots of vegetation cover
- b) Flat land, deserted land, no vegetation
- c) Oceanic areas
- d) Mountainous areas, vegetation cover

57. Which statement describes a situation of static stability?

- a) An aircraft distorted by external impact will return to the original position
- b) An aircraft distorted by external impact will tend to an even more deflected position
- c) An aircraft distorted by external impact will maintain the deflected position
- d) An aircraft distorted by external impact can return to its original position by rudder input

58. 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

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59. What is the correct frequency for an initial distress message?

- a) Radar frequency
- b) Current frequency
- c) FIS frequency
- d) Emergency frequency

60. What are the primary and the secondary effects of a rudder input to the left?

- a) Primary: yaw to the right Secondary: roll to the left
- b) Primary: yaw to the left Secondary: roll to the left
- c) Primary: yaw to the right Secondary: roll to the right
- d) Primary: yaw to the left Secondary: roll to the right

61. During approach, tower provides the following information: "Wind 15 knots, gusts 25 knots". How should the landing be performed?

- a) Approach with minimum speed, correct changes in attitude with careful rudder inputs
- b) Approach with normal speed, maintain speed using spoiler flaps
- c) Approach with increased speed, correct changes in attitude with firm rudder inputs
- d) Approach with increased speed, avoid usage of spoiler flaps

62. From which altitude on does the body usually react to the decreasing atmospheric pressure?

- a) 2000 feet
- b) 10000 feet
- c) 12000 feet
- d) 7000 feet

63. During airtow, in a turn the glider plane gets into an outward off-set position. What action should be taken by the glider pilot?

- a) Return glider plane to a position behind towing plane by a smaller curve radius using strong inputs on rudder pedals
- b) Take up same bank angle as towing plane and return glider plane to a position behind towing plane using rudder pedals
- c) Bring back glider plane to intended turning attitude using rudder and ailerons, extend spoiler flaps to reduce speed
- d) Initiate sideslip and let glider plane be pushed back to a position behind towing plane by increased drag

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

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

65. Flying slow close to stall conditions, the left wing is lower than the right wing. How can the stall be prevented?

- a) Push on the elevator, keep wings level with coordinated inputs on rudder and aileron
- b) Aileron and rudder to the right, gain some speed, push slightly on the elevator, all controls neutral
- c) Aileron to the right, push slightly on the elevator, gain some speed, all controls neutral
- d) Rudder left, push slightly on the elevator, gain some speed, all controls neutral

66. Given: True course: 270°. TAS: 100 kt. Wind: 090°/25 kt. Distance: 100 NM. The ground speed (GS) equals...

- a) 120 kt
- b) 131 kt
- c) 117 kt
- d) 125 kt

67. 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

68. Airspeed indicator, altimeter and vertical speed indicator all show incorrect indications at the same time. What error can be the cause?

- a) Blocking of static pressure lines
- b) Leakage in compensation vessel
- c) Blocking of pitot tube
- d) Failure of the electrical system

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69. Water ballast increases wing load by 40%. By what percentage does the minimum speed of the glider plane increase?

- a) 100%
- b) 40%
- c) 200%
- d) 18%

70. Clouds in high layers are referred to as...

- a) Cirro-.
- b) Strato-.
- c) Nimbo-.
- d) Alto-.

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Response Scheme

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

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

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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: _____		