

Exam simulation

SPL - Sailplane Pilot License - Communication



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STUDENT NAME:

DATE AND TIME:

01. Which section of the flight manual describes the basic empty mass of an aircraft?

- a) Limitations
- b) Normal procedures
- c) Weight and balance
- d) Performance

02. What is the status of the rules and procedures created by the EASA? (e.g. Part-SFCL, Part-MED)

- a) They are not legally binding, they only serve as a guide
- b) Only after a ratification by individual EU member states they are legally binding
- c) They are part of the EU regulation and legally binding to all EU member states
- d) They have the same status as ICAO Annexes

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

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

04. 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

05. When is it necessary to adjust the pressure in the reference scale of an altimeter?

- a) After maintenance has been finished
- b) Every day before the first flight
- c) Once a month before flight operation
- d) Before every flight and during cross country flights



06. Which are the advantages of sandwich structures?

- a) Low weight, high stiffness, high stability, and high strength
- b) High temperature durability and low weight
- c) High strength and good formability
- d) Good formability and high temperature durability

07. What is the effect of pulling the control yoke or stick backwards?

- a) The aircraft's tail will produce a decreased upward force, causing the aircraft's nose to drop
- b) The aircraft's tail will produce an increased upward force, causing the aircraft's nose to rise
- c) The aircraft's tail will produce an increased downward force, causing the aircraft's nose to drop
- d) The aircraft's tail will produce an increased downward force, causing the aircraft's nose to rise

08. The "swiss cheese model" can be used to explain the...

- a) State of readiness of a pilot
- b) Procedure for an emergency landing
- c) Optimal problem solution
- d) Error chain.

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

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

10. 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

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11. What is the distance from Neustadt (EDAN) (53°22'N, 011°37'E) to Uelzen (EDVU) (52°59'N, 10°28'E)?



- a) 46 km
- b) 46 NM
- c) 78 km
- d) 78 nm

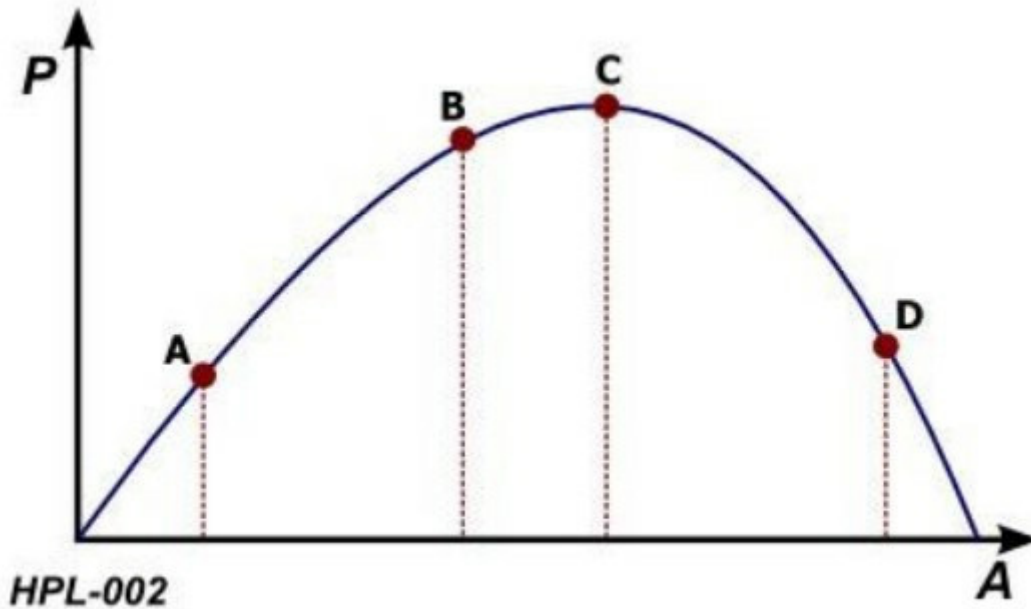
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12. The ideal level of arousal is at which point in the diagram? See figure (HPL- 002) P = Performance A = Arousal / Stress



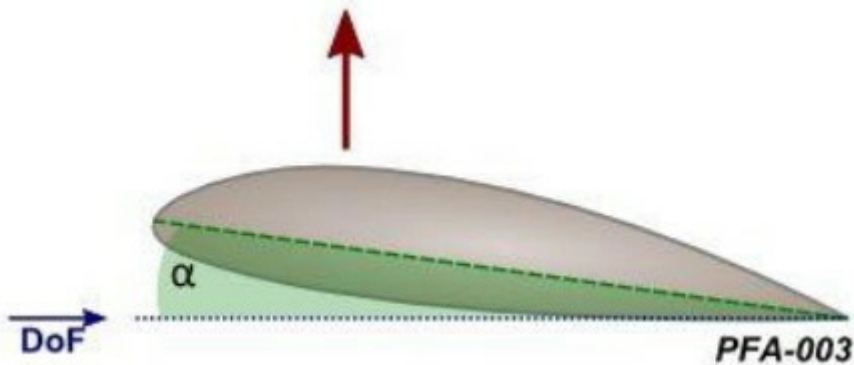
- a) Point B
- b) Point C
- c) Point D
- d) Point A

13. 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.



14. The angle (alpha) shown in the figure is referred to as... See figure (PFA-003) DoF: direction of airflow



- a) Lift angle
- b) Angle of attack
- c) Angle of incidence
- d) Angle of inclination

15. UTC is...

- a) A zonal time
- b) Local mean time at a specific point on Earth
- c) An obligatory time used in aviation
- d) A local time in Central Europe

16. Baggage and cargo must be properly stowed and fastened, otherwise a shift of the cargo may cause...

- a) Calculable instability if the C.G. is shifting by less than 10 %
- b) Continuous attitudes which can be corrected by the pilot using the flight controls
- c) Structural damage, angle of attack stability, velocity stability
- d) Uncontrollable attitudes, structural damage, risk of injuries

17. 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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18. 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 above 5000 feet complying with VFR flight rules or the airspace has to be left using a standard routing
- c) 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
- 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

19. What distance can be covered during a glide in a glider plane with glide ratio 1/30 from a height of 1500 m? (Neglect wind and thermal effects)

- a) 30 km
- b) 45 NM
- c) 45 km
- d) 81 NM

20. While planning a cross country gliding flight, what ground structure should be avoided en route?

- a) Stone quarries and large sand areas
- b) Highways, railroad tracks and channels
- c) Moist ground, water areas, marsh areas
- d) Areas with buildings, concrete and asphalt

21. Information about maximum allowed airspeeds can be found where?

- a) Airspeed indicator, cockpit panel and AIP part ENR
- b) POH, approach chart, vertical speed indicator
- c) POH and posting in briefing room
- d) POH, Cockpit panel, airspeed indicator



22. During the last phase of a winch launch, the glider pilot does not release pull on the elevator. The automatic latch releases the cable at high wing load. What consequences have to be considered?

- a) A higher altitude can be reached using this technique
- b) Extreme stress on the structure of the glider plane
- c) This technique can compensate for insufficient wind correction
- d) Only by this sudden jerk the release of the cable can be assured

23. What pattern can be found at the stagnation point?

- a) The boundary layer starts separating on the upper surface of the profile
- b) All aerodynamic forces can be considered as attacking at this single point
- c) The laminar boundary layer changes into a turbulent boundary layer
- d) Streamlines are divided into airflow above and below the profile

24. When commencing a steep turn, what has to be considered by the pilot?

- a) After achieving bank angle, reduce yaw using opposite rudder
- b) Commence turn with reduced speed according to aimed bank angle
- c) Commence turn with increased speed according to aimed bank angle
- d) After achieving bank angle, push the elevator to increase speed

25. 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

26. What are the major components of an aircraft's tail?

- a) Rudder and ailerons
- b) Steering wheel and pedals
- c) Horizontal tail and vertical tail
- d) Ailerons and elevator

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27. 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

28. Which phrase is to be repeated three times before transmitting an urgency message?

- a) Mayday
- b) Urgent
- c) Pan Pan
- d) Help

29. Rotation around the vertical axis is called...

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

30. An aircraft cruises on a heading of 180° with a true airspeed of 100 kt. The wind comes from 180° with 30 kt. Neglecting instrument and position errors, which will be the approximate reading of the airspeed indicator?

- a) 130 kt
- b) 100 kt
- c) 30 kt
- d) 70 kt

31. Which constructive feature has the purpose to reduce steering forces?

- a) T-tail
- b) Differential aileron deflection
- c) Vortex generators
- d) Aerodynamic rudder balance



32. Which cockpit instruments are connected to the static port?

- a) Airspeed indicator, direct-reading compass, slip indicator
- b) Airspeed indicator, altimeter, direct-reading compass
- c) Altimeter, slip indicator, navigational computer
- d) Altimeter, vertical speed indicator, airspeed indicator

33. Of what shape is a landing direction indicator?

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

34. How do spread and relative humidity change with increasing temperature?

- a) Spread remains constant, relative humidity increases
- b) Spread remains constant, relative humidity decreases
- c) Spread increases, relative humidity decreases
- d) Spread increases, relative humidity increases

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

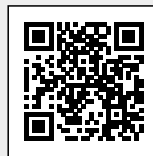
- a) Magnetic north pole and on the geographic South Pole
- b) Magnetic north pole and on the magnetic south pole
- c) Geographic North Pole and on the magnetic south pole
- d) Geographic North Pole and on the geographic South Pole

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

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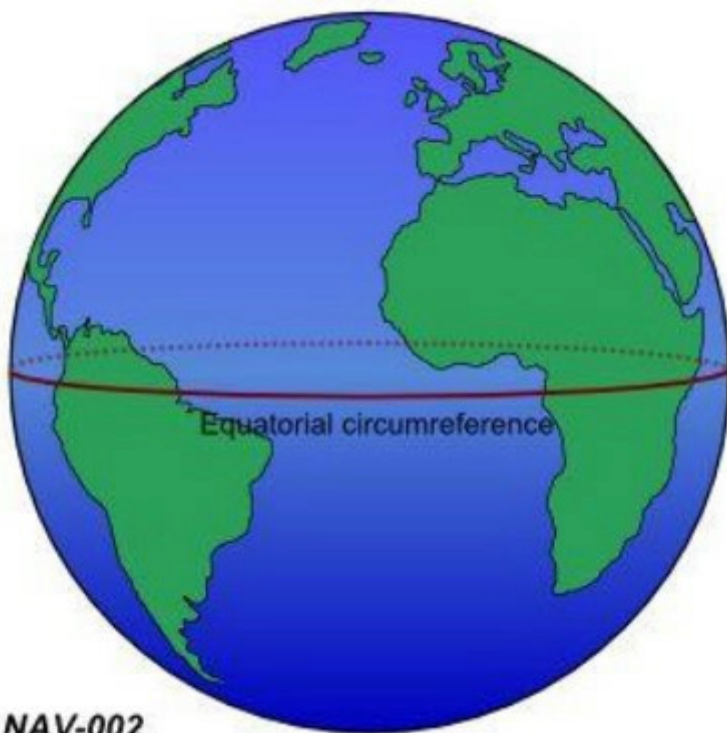
37. Which distances to clouds have to be maintained during a VFR flight in airspaces C, D and E?

- a) 1500 m horizontally, 1000 ft vertically
- b) 1000 m horizontally, 1500 ft vertically
- c) 1000 m horizontally, 300 m vertically
- d) 1500 m horizontally, 1000 m vertically

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

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

39. The circumference of the Earth at the equator is approximately... See figure (NAV-002)



- a) 10800 km
- b) 12800 km
- c) 21600 NM
- d) 40000 NM



40. The static pressure of gases work...

- a) In all directions
- b) Only in flow direction
- c) Only in the direction of the total pressure
- d) Only vertical to the flow direction

41. Which type of cloud is associated with prolonged rain?

- a) Altocumulus
- b) Cumulonimbus
- c) Nimbostratus
- d) Cirrostratus

42. What engines are commonly used with Touring Motor Gliders (TMG)?

- a) 2 plate Wankel
- b) 2 Cylinder Diesel
- c) 4 Cylinder 2 stroke
- d) 4-cylinder 4-stroke

43. The term 'civil twilight' is defined as...

- a) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the apparent horizon
- b) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the true horizon
- c) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the true horizon
- d) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the apparent horizon

44. 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



45. How can a wind shear encounter in flight be avoided?

- a) Avoid thermally active areas, particularly during summer, or stay below these areas
- b) Avoid areas of precipitation, particularly during winter, and choose low flight altitudes
- c) Avoid take-off and landing during the passage of heavy showers or thunderstorms
- d) Avoid take-offs and landings in mountainous terrain and stay in flat country whenever possible

46. In case of cable break during airtow, a longer part of the cable remains attached to the glider plane. What action should be taken by the glider pilot?

- a) Decouple immediately and proceed with coupling unlatched
- b) Conduct normal approach, release cable immediately after ground contact
- c) Perform low approach and request information about cable length by airfield controller, decouple if necessary
- d) When in safe height, drop cable overhead empty terrain or overhead airfield

47. During a flight, a flight plan can be filed at the...

- a) Search and Rescue Service (SAR)
- b) Flight Information Service (FIS)
- c) Next airport operator en-route
- d) Aeronautical Information Service (AIS)

48. During a winch launch, after reaching full climb attitude, the airspeed indicator fails. What action should be taken by the glider pilot?

- a) Continue launch to normal altitude, use horizontal image and airstream noise to conduct flight as planned
- b) Try to re-establish airspeed indication by abrupt changes of speed during launch
- c) Push elevator, decouple cable and perform short pattern with minimum speed
- d) Continue launch to normal altitude, use horizontal image and airstream noise for pattern and landing right away

49. 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

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50. The centre of gravity has to be located...

- a) Behind the rear C.G. limit
- b) In front of the front C.G. limit
- c) Right of the lateral C.G. limit
- d) Between the front and the rear C.G. limit

51. 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

52. With Central European Time (CET) given as UTC+1, what UTC time corresponds to 1700 CET?

- a) 1500 UTC
- b) 1700 UTC
- c) 1800 UTC
- d) 1600 UTC

53. Which characteristic is important when choosing sunglasses used by pilots?

- a) Curved sidepiece
- b) Non-polarised
- c) Unbreakable
- d) No UV filter

54. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?

- a) Roger
- b) Squawk 4321, 131.325
- c) Squawk 4321, wilco
- d) Wilco

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55. The airspeed indicator is unserviceable. The aeroplane may only be operated...

- a) If no maintenance organisation is around
- b) If only airfield patterns are flown
- c) When the airspeed indicator is fully functional again
- d) When a GPS with speed indication is used during flight

56. An altitude of 4500 ft is transmitted as...

- a) Four five thousand
- b) Four five zero zero
- c) Four thousand five zero zero
- d) Four thousand five hundred

57. Who provides search and rescue service?

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

58. What visual flight conditions can be expected after the passage of a cold front?

- a) Good visibility, formation of cumulus clouds with showers of rain or snow
- b) Poor visibility, formation of overcast or ground-covering stratus clouds, snow
- c) Scattered cloud layers, visibility more than 5 km, formation of shallow cumulus clouds
- d) Medium visibility with lowering cloud bases, onset of prolonged precipitation

59. How does a laminar boundary layer differ from a turbulent boundary layer?

- a) The laminar boundary layer is thinner and provides more skin-friction drag
- b) The turbulent boundary layer can follow the airfoil camber at higher angles of attack
- c) The laminar boundary layer produces lift, the turbulent boundary layer produces drag
- d) The turbulent boundary layer is thicker and provides less skin-friction drag

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60. The distance between the centre of gravity and the datum is called...

- a) Lever
- b) Torque
- c) Span width
- d) Balance arm

61. The compass error caused by the aircraft's magnetic field is called...

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

62. 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

63. What kind of information should be included in an urgency message?

- a) Nature of problem or observation, important information for support, departure aerodrome, information about position, heading and altitude
- b) Intended routing, important information for support, intentions of the pilot, information about position, departure aerodrome, heading and altitude
- c) Intended routing, important information for support, intentions of the pilot, departure aerodrome, destination aerodrome, heading and altitude
- d) Nature of problem or observation, important information for support, intentions of the pilot, information about position, heading and altitude

64. The term "centre of gravity" is defined as...

- a) The heaviest point on an aeroplane
- b) Half the distance between the neutral point and the datum line
- c) Another designation for the neutral point
- d) The point at which the total mass of the aeroplane is considered to act

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65. What must be considered for cross-border flights?

- a) Transmission of hazard reports
- b) Requires flight plans
- c) Regular location messages
- d) Approved exceptions

66. Clouds are basically distinguished by what types?

- a) Thunderstorm and shower clouds
- b) Cumulus and stratiform clouds
- c) Stratiform and ice clouds
- d) Layered and lifted clouds

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

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

68. What is the correct phrase with respect to wake turbulence to indicate that a light aircraft is following an aircraft of a higher wake turbulence category?

- a) Caution wake turbulence
- b) Be careful wake winds
- c) Danger jet blast
- d) Attention propwash

69. What is the percentage of nitrogen in the atmosphere?

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

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70. The temperature lapse rate with increasing height within the troposphere according to ISA is...

- a) 1° C / 100 m.
- b) $0,6^{\circ}$ C / 100 m.
- c) $0,65^{\circ}$ C / 100 m.
- d) 3° C / 100 m.

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Response Scheme

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

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