

Exam simulation

SPL - Sailplane Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

01. 5500 m equal...

- a) 18000 ft
- b) 30000 ft
- c) 7500 ft
- d) 10000 ft

02. 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

03. A wind shear is...

- a) A wind speed change of more than 15 kt
- b) A meteorological downslope wind phenomenon in the alps
- c) A vertical or horizontal change of wind speed and wind direction
- d) A slow increase of the wind speed in altitudes above 13000 ft

04. 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

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05. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 030° to a heading of 180°. At approximately which indicated magnetic heading should the turn be terminated?

- a) 150°
- b) 180°
- c) 360°
- d) 210°

06. 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

07. The trim tab at the elevator is deflected upwards. In which position is the corresponding indicator?

- a) Neutral position
- b) Nose-down position
- c) Nose-up position
- d) Laterally trimmed

08. What weather conditions can be expected in high pressure areas during summer?

- a) Calm weather and cloud dissipation, few high Cu
- b) Changing weather with passing of frontal lines
- c) Squall lines and thunderstorms
- d) Calm winds and widespread areas with high fog

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

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

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10. 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

11. At which altitude is the atmospheric pressure approximately half the MSL value (1013 hPa)?

- a) 18000 ft
- b) 22000 ft
- c) 10000 ft
- d) 5000 ft

12. 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

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

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

14. Which factor shortens landing distance?

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

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15. What situation is referred to as "shielding"?

- a) Ns clouds, covering the windward side of a mountain range
- b) High or mid-level cloud layers, impairing thermal activity
- c) Anvil-like structure at the upper levels of a thunderstorm cloud
- d) Coverage of Cumulus clouds, stated as part of eights of the sky

16. Air consists of oxygen, nitrogen and other gases. What is the approximate percentage of other gases?

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

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

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

18. Which type of ice forms by large, supercooled droplets hitting the front surfaces of an aircraft?

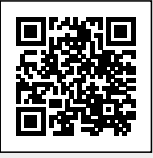
- a) Hoar frost
- b) Clear ice
- c) Rime ice
- d) Mixed ice

19. A frequency of 119.500 MHz is correctly transmitted as...

- a) One one niner decimal five zero
- b) One one niner decimal five zero zero
- c) One one niner decimal five
- d) One one niner thousand decimal five zero

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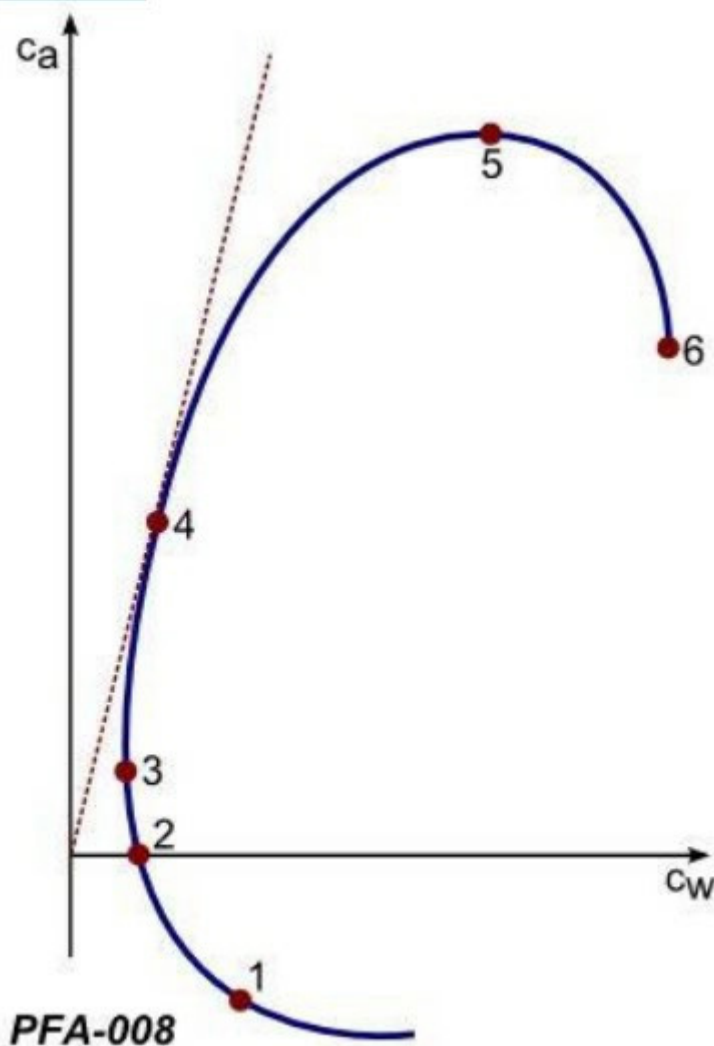


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20. During final approach, you realize that you missed to extend the gear. How should the landing be conducted?

- a) You land without gear, and carefully touch down with minimum speed
- b) You extend the gear immediately and land as usual
- c) You retract flaps, extend the gear and land as usual
- d) You land without gear with higher than usual speed

21. Point number 1 in the figure indicates which flight state? See figure (PFA-008)



- a) Inverted flight
- b) Slow flight
- c) Stall
- d) Best gliding angle

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22. Given: True course: 255°. TAS: 100 kt. Wind: 200°/10 kt. The true heading equals...

- a) 250°
- b) 265°
- c) 275°
- d) 245°

23. What does the term "Red-out" mean?

- a) "Red vision" during negative g-loads
- b) Falsified colour perception during sunrise and sunset
- c) Anaemia caused by an injury
- d) Rash during decompression sickness

24. 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

25. Which process may result in an inversion layer at about 5000 ft (1500 m) height?

- a) Ground cooling by radiation during the night
- b) Intensive sunlight insolation during a warm summer day
- c) Advection of cool air in the upper troposphere
- d) Widespread descending air within a high pressure area

26. 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

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27. The term 'True Course' (TC) is defined as...

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

28. 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

29. How should a glider plane be parked when observing strong winds?

- a) Nose into the wind, keep and weigh tail down
- b) Nose into the wind, extend air brakes, secure rudders
- c) Downwind wing on the ground, weigh wing down, secure rudders
- d) Windward wing on the ground, weigh wing down, secure rudders

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

- a) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown
- b) The period from the start of the take-off run to the final touchdown when landing
- c) The total time from the first aircraft movement until the moment it finally comes to rest at the end of the flight
- d) The total time from the first take-off until the last landing in conjunction with one or more consecutive flights

31. Which of the following is NOT a risk factor for hypoxia?

- a) Blood donation
- b) Smoking
- c) Menstruation
- d) Diving

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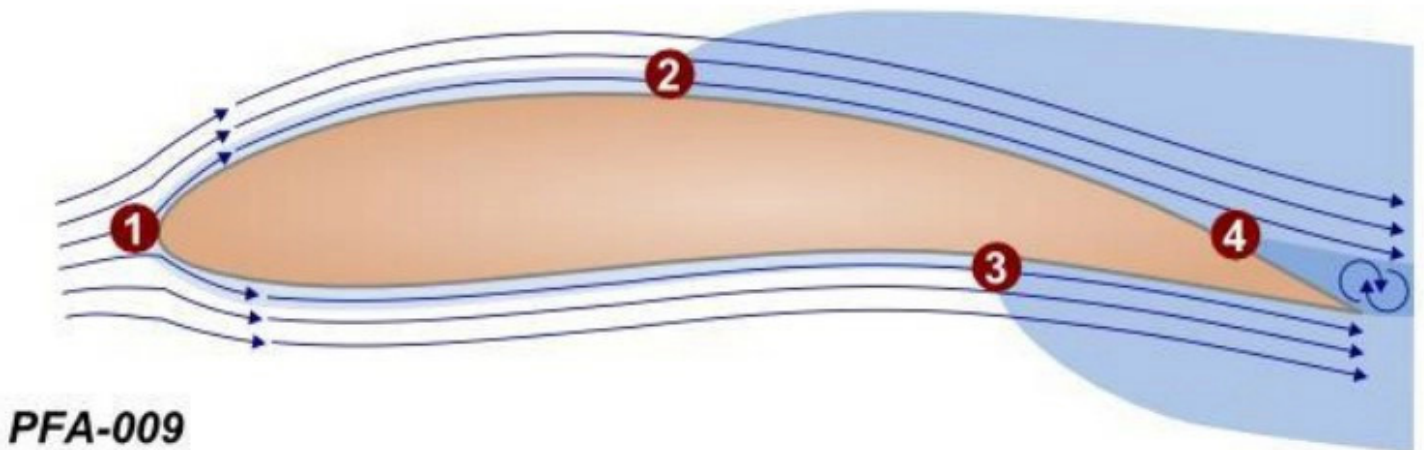
32. During the last phase of a winch launch, the glider pilot does not release pull on the elevator. The automatic latch releases the cable at high wing load. What consequences have to be considered?

- 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

33. Which weather chart shows the actual air pressure as in MSL along with pressure centres and fronts?

- a) Wind chart
- b) Surface weather chart
- c) Prognostic chart
- d) Hypsometric chart

34. Which point on the aerofoil is represented by number 1? See figure (PFA-009)



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

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

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

36. 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

37. Lower-than-standard temperature may lead to...

- a) An altitude indication which is too high
- b) An altitude indication which is too low
- c) A correct altitude indication as long as the altimeter subscale is set to correct for non-standard temperature
- d) A blockage of the Pitot tube by ice, freezing the altimeter indication to its present value

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

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

39. What is meant by "isothermal layer"?

- a) An atmospheric layer where temperature decreases with increasing height
- b) An atmospheric layer with constant temperature with increasing height
- c) A boundary area between two other layers within the atmosphere
- d) An atmospheric layer where temperature increases with increasing height

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40. 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

41. The centre of gravity (CG) defines...

- a) The point on the longitudinal axis or its extension from which the centres of gravity of all masses are referenced
- b) The point through which the force of gravity is said to act on a mass
- c) The distance from the datum to the position of a mass
- d) The product of mass and balance arm

42. 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

43. 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

44. Which instrument can be affected by the hysteresis error?

- a) Direct reading compass
- b) Tachometer
- c) Vertical speed indicator
- d) Altimeter

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45. What is indicated by "buffeting" noticeable at elevator stick?

- a) C.G. position too far ahead
- b) Sailplane very dirty
- c) Too slow, wing airflow stalled
- d) Too fast, turbulence bubbles hitting on aileron

46. With regard to global circulation within the atmosphere, where does polar cold air meet subtropical warm air?

- a) At the equator
- b) At the subtropical high pressure belt
- c) At the polar front
- d) At the geographic poles

47. What is the correct way to transmit the call sign OE-JVK?

- a) Omega Echo Jankee Victor Kilo
- b) Omega Echo Juliett Victor Kilogramm
- c) Oscar Echo Jankee Victor Kilogramm
- d) Oscar Echo Juliett Victor Kilo

48. Considering longitudinal stability, which C.G. position is most dangerous with a normal sailplane?

- a) Position beyond the front C.G. limit
- b) Position too far aside permissible C.G. limits
- c) Position far back within permissible C.G. limits
- d) Position beyond the rear C.G. limit

49. The term "runway" is defined as a...

- a) Round area on an aerodrome prepared for the landing and take-off of aircraft
- b) Rectangular area on a land aerodrome prepared for the landing and take-off of helicopters
- c) Rectangular area on a land aerodrome prepared for the landing and take-off of aircraft
- d) Rectangular area on a land or water aerodrome prepared for the landing and take-off of aircraft

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50. Given: True course: 165°. TAS: 90 kt. Wind: 130°/20 kt. Distance: 153 NM. The true heading equals...

- a) 152°
- b) 158°
- c) 165°
- d) 126°

51. 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

52. 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

53. 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)

54. 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

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55. 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

56. Which constructional elements give the wing its profile shape?

- a) Ribs
- b) Planking
- c) Tip
- d) Spar

57. Which direction corresponds to 'compass north' (CN)?

- a) The most northerly part of the magnetic compass in the aircraft, where the reading takes place
- b) The direction to which the direct reading compass aligns due to earth's and aircraft's magnetic fields
- c) The angle between the aircraft heading and magnetic north
- d) The direction from an arbitrary point on Earth to the geographical North Pole

58. 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

59. What is the correct phrase to begin a blind transmission?

- a) Listen
- b) Blind
- c) Transmitting blind
- d) No reception

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60. 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.

61. 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

62. The altimeter can be checked on the ground by setting...

- a) QFF and comparing the indication with the airfield elevation.
- b) QFE and comparing the indication with the airfield elevation.
- c) QNH and comparing the indication with the airfield elevation.
- d) QNE and checking that the indication shows zero on the ground.

63. What has to be considered when overflying mountain ridges?

- a) Turbulence, reduce to minimum speed
- b) Do not overfly national parks
- c) Turbulence, therefore slightly increase speed
- d) Use circling birds to find thermal cells

64. 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



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

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

66. Which of the following landing areas is most suitable for an off-field landing?

- a) A field with ripe waving crops
- b) A meadow without livestock
- c) A light brown field with short crops
- d) A lake with an undisturbed surface

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

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

68. What is the purpose of the semi-circular rule?

- a) To fly without a filed flight plan in prescribed zones published in the AIP
- b) To avoid collisions by suspending turning manoeuvres
- c) To avoid collisions by reducing the probability of opposing traffic at the same altitude
- d) To allow safe climbing or descending in a holding pattern

69. 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

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70. The occurrence of a vertigo is most likely when moving the head...

- a) During a turn
- b) During a straight horizontal flight
- c) During a climb
- d) During a descent

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Response Scheme

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

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