

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



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STUDENT NAME:

DATE AND TIME:

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

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

02. What is the difference in time when the sun moves 20° of longitude?

- a) 1:00 h
- b) 0:40 h
- c) 0:20 h
- d) 1:20 h

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

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

04. What is the correct abbreviation of the call sign D-EAZF?

- a) AZF
- b) DZF
- c) DEA
- d) DEF

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

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

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06. Under which conditions "back side weather" ("Rückseitenwetter") can be expected?

- a) After passing of a cold front
- b) Before passing of an occlusion
- c) During Foehn at the lee side
- d) After passing of a warm front

07. What has to be considered when operating a sailplane equipped with camber flaps?

- a) During approach and landing, camber must not be changed from negative to positive
- b) During approach and landing, camber must not be changed from positive to negative
- c) During winch launch, camber must be set to full negative
- d) During winch launch, camber must be set to full positive

08. 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

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

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

10. Which stage of a thunderstorm is dominated by updrafts?

- a) Dissipating stage
- b) Mature stage
- c) Cumulus stage
- d) Upwind stage

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11. 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

12. 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

13. (For this question, please use annex PFP-061) According to ICAO, what symbol indicates a group of unlighted obstacles?

- A 
- B 
- C 
- D 

PFP-061

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

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

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

15. During flight close to aerodrome in about 250 m AGL you encounter strong descent and go for a safety landing. What speed should be flown when heading towards the airfield?

- a) Best glide speed plus additional for downdrafts and wind
- b) Best glide speed
- c) Minimum rate of descent speed
- d) Maximum manoeuvring speed VA

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

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

17. QFE is the...

- a) Altitude above the reference pressure level 1013.25 hPa
- b) Magnetic bearing to a station
- c) Barometric pressure adjusted to sea level, using the international standard atmosphere (ISA)
- d) Barometric pressure at a reference datum, typically the runway threshold of an airfield

18. What is the parallax error?

- a) Wrong interpretation of instruments caused by the angle of vision
- b) Misperception of speed during taxiing
- c) Long-sightedness due to aging especially during night
- d) A decoding error in communication between pilots

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19. Pressure drag, interference drag and friction drag belong to the group of the...

- a) Parasite drag
- b) Main resistance
- c) Induced drag
- d) Total drag

20. A glider's trim lever is used to...

- a) Reduce stick force on the elevator
- b) Reduce stick force on the ailerons
- c) Reduce stick force on the rudder
- d) Reduce the adverse yaw

21. 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

22. Which abbreviation is used for the term "visual flight rules"?

- a) VFS
- b) VRU
- c) VFR
- d) VMC

23. 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

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24. 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

25. During an approach the aeroplane experiences a windshear with a decreasing headwind. If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change?

- a) Path is higher, IAS increases
- b) Path is lower, IAS decreases
- c) Path is lower, IAS increases
- d) Path is higher, IAS decreases

26. 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

27. The average decrease of blood alcohol level for an adult in one hour is approximately...

- a) 0.01 percent
- b) 0.03 percent
- c) 0.1 percent
- d) 0.3 percent

28. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL110?

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

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29. 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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30. What is the distance from VOR Brünkendorf (BKD) ($53^{\circ}02'N$, $011^{\circ}33'E$) to Pritzwalk (EDBU) ($53^{\circ}11'N$, $12^{\circ}11'E$)?



- a) 24 NM
- b) 42 NM
- c) 24 km
- d) 42 km

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31. 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.

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

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

33. 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

34. What information is provided in the part "AD" of the AIP?

- a) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces
- b) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods
- c) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts
- d) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees

35. Given: WCA: -012°; TH: 125°; MC: 139°; DEV: 002°E What are: TC, MH and CH?

- a) TC: 113°. MH: 127°. CH: 129°.
- b) TC: 137°. MH: 127°. CH: 125°.
- c) TC: 137°. MH: 139°. CH: 125°.
- d) TC: 113°. MH: 139°. CH: 129°.

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36. In a METAR, "(moderate) showers of rain" are designated by the identifier...

- a) +TSRA
- b) SHRA
- c) TS
- d) +RA

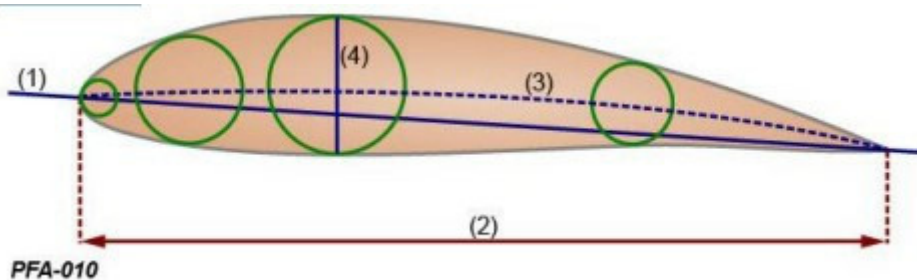
37. What is the distance between the parallels of latitude 48°N and 49°N along a meridian line?

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

38. 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

39. Number 3 in the drawing corresponds to the... See figure (PFA-010)



- a) Camber line
- b) Thickness
- c) Chord
- d) Chord line

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40. 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

41. During a right turn, the yaw string is drawn to the left from center position. By what rudder input can the string be centered again?

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

42. Following a single-wing stall and pitch-down moment, how can a spin be prevented?

- a) Deflect all rudders opposite to lower wing
- b) Rudder opposite lower wing, releasing elevator to build up speed
- c) Pushing the elevator to build up speed to re-attach airflow on wings
- d) Pulling the elevator to bring the plane back to normal attitude

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. For what approximate time period can the short-time memory store information?

- a) 3 to 7 seconds
- b) 10 to 20 seconds
- c) 35 to 50 seconds
- d) 30 to 40 seconds

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45. The critical angle of attack...

- a) Decreases with forward center of gravity position
- b) Changes with increasing weight
- c) Is independent of the weight
- d) Increases with backward center of gravity position

46. What is the meaning of "DETRESFA"?

- a) Distress phase
- b) Alerting phase
- c) Uncertainty phase
- d) Rescue phase

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

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

48. When landing with tailwind, the pilot has to...

- a) Approach with normal speed and shallow angle
- b) Compensate tailwind by sideslip
- c) Increase approach speed
- d) Land with gear retracted to shorten ground roll distance

49. Point A on the Earth's surface lies exactly on the parallel of latitude of 47°50'27"N. Which point is exactly 240 NM north of A?

- a) 53°50'27"N
- b) 49°50'27"N
- c) 51°50'27"N
- d) 43°50'27"N

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50. Wings level after a longer period of turning can lead to the impression of...

- a) Starting a climb
- b) Steady turning in the same direction as before
- c) Turning into the opposite direction
- d) Starting a descent

51. Extending airbrakes results in ...

- a) Less drag and more lift
- b) More drag and less lift
- c) More drag and more lift
- d) Less drag and less lift

52. The barometric altimeter with QFE setting indicates...

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

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

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

54. 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

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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. 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

57. Pressure compensation on a wing occurs at the...

- a) Wing tips
- b) Leading edge
- c) Trailing edge
- d) Wing roots

58. What does the dynamic pressure depend directly on?

- a) Lift- and drag coefficient
- b) Air density and airflow speed squared
- c) Air density and lift coefficient
- d) Air pressure and air temperature

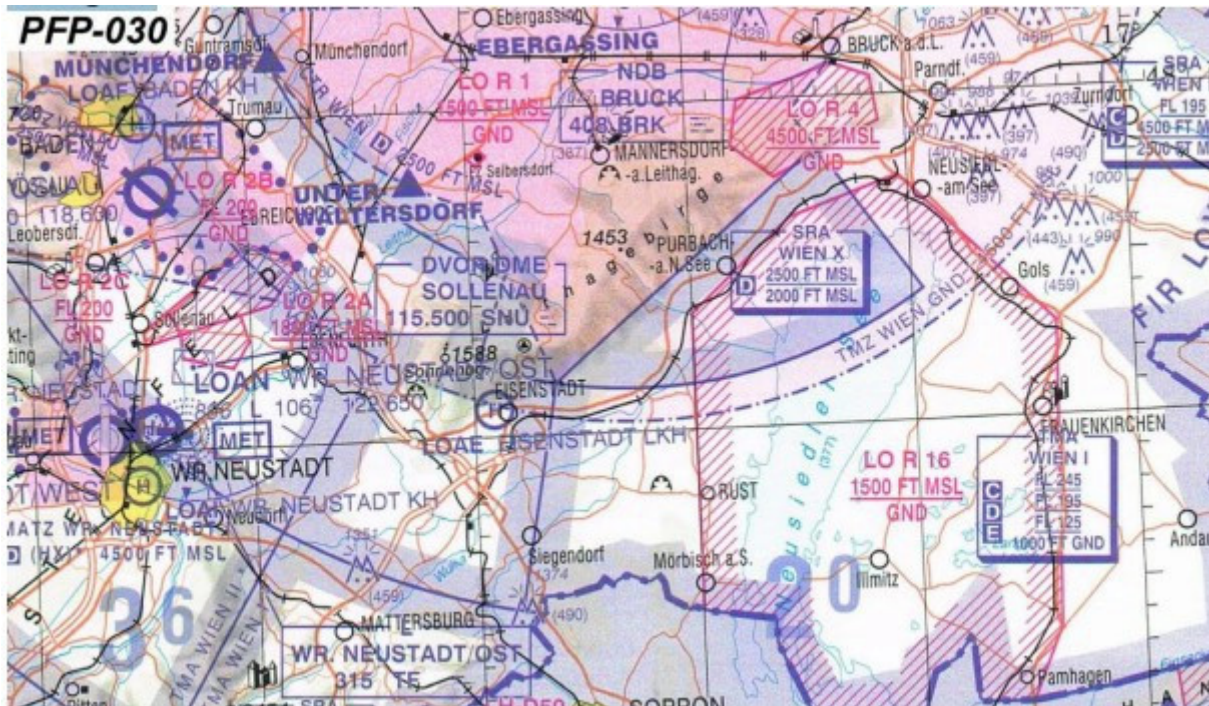
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59. The upper limit of LO R 4 equals... See annex (PPF-030)



- a) 1.500 ft AGL
- b) 1.500 ft MSL
- c) 4.500 ft MSL
- d) 1.500 ft MSL

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

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

61. 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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62. 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

63. Why is it not allowed to launch with the C.G. positioned beyond the aft limit?

- a) Because rudder inputs may not be sufficient for controlling flight attitude
- b) Because increased nose-down moment may not be compensated
- c) Because structural limits may be exceeded
- d) Because maximum permissible speed will be reduced significantly

64. 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

65. A vertical speed indicator connected to a too big equalizing tank results in...

- a) Mechanical overload
- b) No indication
- c) Indication too low
- d) Indication too high

66. The sandwich structure consists of two...

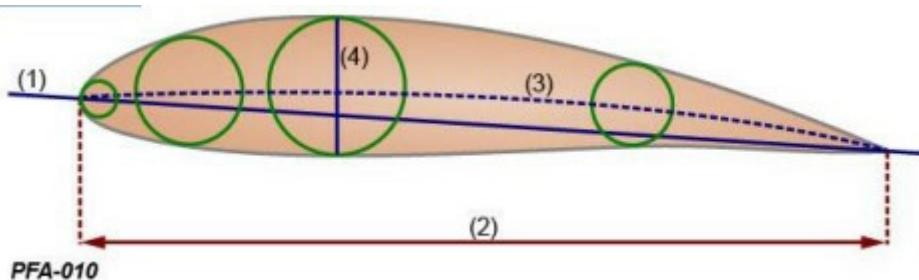
- a) Thick layers and a light core material
- b) Thick layers and a heavy core material
- c) Thin layers and a light core material
- d) Thin layers and a heavy core material



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

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

68. Number 2 in the drawing corresponds to the... See figure (PFA-010)



- a) Profile thickness
- b) Chord
- c) Chord line
- d) Angle of attack

69. During an approach the aeroplane experiences a windshear with a decreasing tailwind. If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change?

- a) Path is higher, IAS decreases
- b) Path is lower, IAS increases
- c) Path is higher, IAS increases
- d) Path is lower, IAS decreases

70. What has to be considered when entering an RMZ?

- a) To obtain a clearance to enter this area
- b) To permanently monitor the radio and if possible to establish radio contact
- c) To obtain a clearance from the local aviation authority
- d) The transponder has to be switched on Mode C and squawk 7000

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Response Scheme

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

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

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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: _____		