

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



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STUDENT NAME:

DATE AND TIME:

01. What are the effects of wet grass on the take-off and landing distance?

- a) Decrease of the take-off distance and increase of the landing distance
- b) Increase of the take-off distance and increase of the landing distance
- c) Increase of the take-off distance and decrease of the landing distance
- d) Decrease of the take-off distance and decrease of the landing distance

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

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

03. Regularity messages are messages...

- a) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance
- b) Sent by an aircraft operating agency or an aircraft of immediate concern to an aircraft in flight
- c) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight
- d) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation

04. Which of the following qualities are influenced by stress? 1. Attention 2. Concentration 3. Responsiveness 4. Memory

- a) 1, 2, 3
- b) 2, 4
- c) 1
- d) 1, 2, 3, 4

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05. The shortest distance between two points on Earth is represented by a part of...

- a) A rhumb line
- b) A small circle
- c) A parallel of latitude
- d) A great circle

06. A sailplane being airtowed gets into an excessive high position behind the towing plane. What action by the glider pilot can prevent further danger for glider and towing plane?

- a) Initiate a sideslip to reduce excessive height
- b) Pull strongly, thereafter decouple the cable
- c) Carefully extend spoiler flaps, steer glider back into normal position
- d) Push strongly to bring glider back to normal position

07. Given: TC: 179°; WCA: -12°; VAR: 004° E; DEV: +002° What are MH and MC?

- a) MH: 163°. MC: 175°
- b) MH: 167°. MC: 161°
- c) MH: 163°. MC: 161°
- d) MH: 167°. MC: 175°

08. 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, licence 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

09. A vertical speed indicator measures the difference between...

- a) Total pressure and static pressure
- b) Dynamic pressure and total pressure
- c) Instantaneous static pressure and previous static pressure
- d) Instantaneous total pressure and previous total pressure

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10. How can you determine wind direction in case of an outlanding?

- a) Monitoring of smoke, flags, waving fields
- b) Wind forecast from flight weather report
- c) Request from other pilots who can be reached by radio
- d) Remembering the wind indicated by the windsock at departing airfield

11. 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

12. 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

13. 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%

14. Which area is suitable for an off-field landing?

- a) Harvested cornfield
- b) Glade with long dry grass
- c) Plowed field
- d) Sports area in a village

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15. Trim masses or lead plates must be secured firmly when installed into a sailplane, so that...

- a) The maximum allowed mass will not be exceeded
- b) A comfortable seat position will be assured for the glider pilot
- c) They will not block rudders or induce any C.G. shift
- d) The glider pilot will not be hurt during flight in thermal turbulences

16. The height of the tropopause of the International Standard Atmosphere (ISA) is at...

- a) 36000 ft.
- b) 5500 ft
- c) 48000 ft.
- d) 11000 ft.

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

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

18. With different aircraft weights, the critical angle of attack is...

- a) Increases with a front centre of gravity
- b) Is changed by different aircraft weights
- c) Is not changed by different aircraft weights
- d) Decreases with a rear centre of gravity

19. Which runway designators are correct for 2 parallel runways?

- a) "26" and "26R"
- b) "06L" and "06R"
- c) "18" and "18-2"
- d) "24" and "25"

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20. 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

21. 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

22. What is the difference between spin and spiral dive?

- a) Spin: stall at inner wing, speed increasing rapidly; Spiral dive: airflow at both wings, speed constant
- b) Spin: stall at inner wing, speed constant; Spiral dive: airflow at both wings, speed increasing rapidly
- c) Spin: stall at outer wing, speed constant; Spiral dive: airflow at both wings, speed increasing rapidly
- d) Spin: stall at outer wing, speed increasing rapidly; Spiral dive: airflow at both wings, speed constant

23. Which answer contains every state of water found in the atmosphere?

- a) Liquid, solid, and gaseous
- b) Liquid
- c) Gaseous and liquid
- d) Liquid and solid

24. What is the result of extending flaps with increasing aerofoil camber?

- a) Maximum permissible speed increases
- b) Minimum speed increases
- c) Minimum speed decreases
- d) C.G. position moves forward

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25. What has to be expected with ice accretion on wings?

- a) An increased stall speed
- b) A decreased stall speed
- c) Improved slow flight capabilities
- d) Reduced friction drag

26. What heights should be considered for landing phases with a glider plane?

- a) 100 m abeam threshold and 50 m after final approach turn
- b) 300 m abeam threshold and 150 m in final approach
- c) 500 m abeam threshold and 50 m after final approach turn
- d) 150 - 200 m abeam threshold and 100 m after final approach turn

27. (For this question, please use annex PFP-062) According to ICAO, what symbol indicates a civil airport (not international airport) with paved runway?



PFP-062

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

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

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

29. 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

30. At stationary glide and the same mass, what is the difference when using a thick airfoil instead of a thinner airfoil?

- a) More drag, same lift
- b) Less drag, less lift
- c) More drag, less lift
- d) Less drag, same lift

31. What does the abbreviation "H24" stand for?

- a) No specific opening times
- b) 24 h service
- c) Sunrise to sunset
- d) Sunset to sunrise

32. 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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33. The "spread" is defined as...

- a) Difference between actual temperature and dew point.
- b) Difference between dew point and condensation point.
- c) Relation of actual to maximum possible humidity of air
- d) Maximum amount of water vapour that can be contained in air.

34. 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

35. What weather development will result from convergence at ground level?

- a) Ascending air and cloud formation
- b) Descending air and cloud dissipation
- c) Ascending air and cloud dissipation
- d) Descending air and cloud formation

36. 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

37. What is the ISA standard pressure at FL 180 (5500 m)?

- a) 300 hPa
- b) 250 hPa
- c) 1013.25 hPa
- d) 500 hPa

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

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

39. Which altitude marks the lower limit where the body is unable to completely compensate the effects of the low atmospheric pressure?

- a) 5000 feet
- b) 22000 feet
- c) 12000 feet
- d) 7000 feet

40. 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

41. Visual illusions are mostly caused by...

- a) Binocular vision.
- b) Colour blindness.
- c) Rapid eye movements.
- d) Misinterpretation of the brain.

42. 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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43. What is the function of the red blood cells (erythrocytes)?

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

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

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

45. 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

46. What does a cloud coverage of "SCT" mean in a METAR weather report?

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

47. 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

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48. 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

49. Which factor shortens landing distance?

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

50. 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

51. 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

52. 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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53. Given: Ground speed (GS): 160 kt. True course (TC): 177°. Wind vector (W/WS): 140°/20 kt. The true heading (TH) equals...

- a) 180°
- b) 173°
- c) 169°
- d) 184°

54. Which transponder code has to be set unrequested during an emergency?

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

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

- a) 1° C / 100 m.
- b) 0,6° C / 100 m.
- c) 0,65° C / 100 m.
- d) 3° C / 100 m.

56. 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

57. What is referred to as mountain wind?

- a) Wind blowing down the mountain side during the night
- b) Wind blowing uphill from the valley during the night
- c) Wind blowing uphill from the valley during daytime
- d) Wind blowing down the mountain side during daytime

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58. 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

59. The load factor "n" describes the relationship between...

- a) Weight and thrust
- b) Drag and lift
- c) Lift and weight
- d) Thrust and drag

60. 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

61. What structural item provides lateral stability to an aeroplane?

- a) Wing dihedral
- b) Vertical tail
- c) Differential aileron deflection
- d) Elevator

62. A Grey-out is the result of...

- a) Hyperventilation
- b) Tiredness
- c) Hypoxia
- d) Positive g-forces

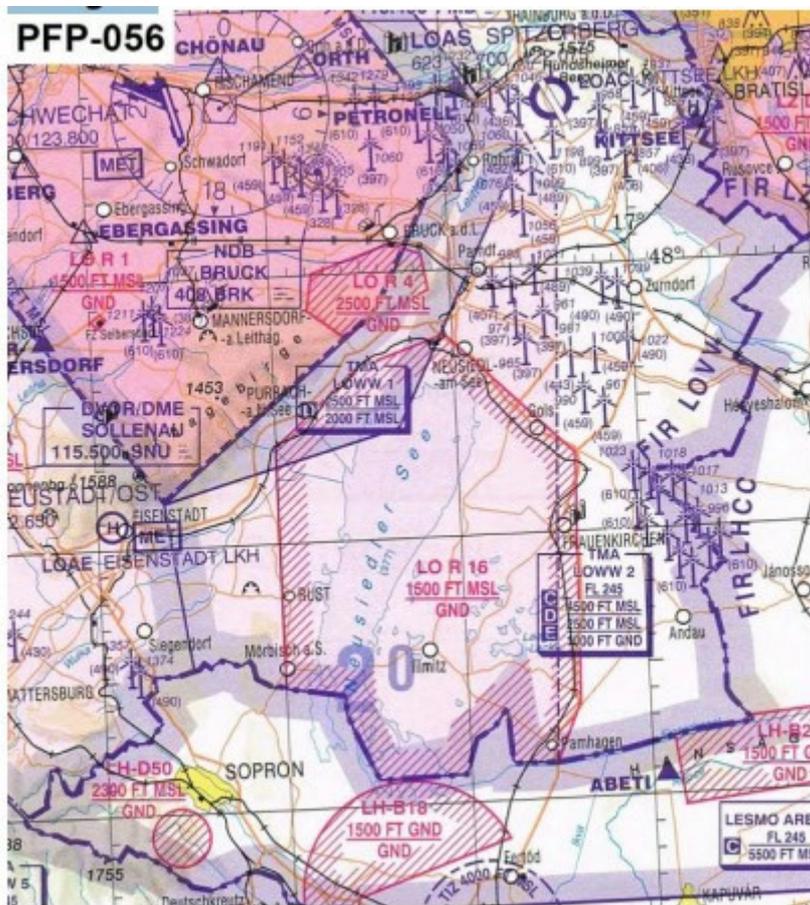
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63. The upper limit of LO R 16 equals... See annex (PFP-056)



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

64. 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

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65. 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

66. 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

67. The saturated adiabatic lapse rate should be assumed with a mean value of:

- a) 1,0° C / 100 m.
- b) 0,6° C / 100 m.
- c) 2° C / 1000 ft.
- d) 0° C / 100 m.

68. The angle of attack is the angle between...

- a) The chord line and the longitudinal axis of an aeroplane
- b) The chord line and the oncoming airflow
- c) The wing and the fuselage of an aeroplane
- d) The undisturbed airflow and the longitudinal axis of an aeroplane

69. 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

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70. What is the meaning of the abbreviation "TRA"?

- a) Transponder Area
- b) Temporary Reserved Airspace
- c) Terminal Area
- d) Temporary Radar Routing Area

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Response Scheme

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

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