

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

STUDENT NAME:

DATE AND TIME:

01. 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

02. Primary fuselage structures of wood or metal planes are usually made up by what components?

- a) Covers, stringers and forming parts
- b) Frames and stringers
- c) Girders, ribs and stringers
- d) Ribs, frames and covers

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

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

04. 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

05. Which transponder code indicates a radio failure?

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

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

06. "Foehn" conditions usually develop with...

- a) Instability, high pressure area with calm wind.
- b) Stability, high pressure area with calm wind.
- c) Stability, widespread air blown against a mountain ridge.
- d) Instability, widespread air blown against a mountain ridge.

07. 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

08. 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

09. What does a readability of 5 indicate?

- a) The transmission is readable now and then
- b) The transmission is readable but with difficulty
- c) The transmission is unreadable
- d) The transmission is perfectly readable

10. 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

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

11. Vienna (LOWW) is located at 016° 34'E, Salzburg (LOWS) at 013° 00'E. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between Wien and Salzburg?

- a) In Vienna the sunrise is 4 minutes later and sunset is 4 minutes earlier than in Salzburg
- b) In Vienna the sunrise and sunset are about 14 minutes earlier than in Salzburg
- c) In Vienna the sunrise and sunset are about 4 minutes later than in Salzburg
- d) In Vienna the sunrise is 14 minutes earlier and sunset is 14 minutes later than in Salzburg

12. 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

13. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?

- a) The deviation of the bar from the centre indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS
- b) The deviation of the bar from the centre indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS
- c) The deviation of the bar from the centre indicates the track error as angular distance in degrees; the scale for full deflection is $\pm 10^\circ$
- d) The deviation of the bar from the centre indicates the track error as absolute distance in NM; the scale for full deflection is ± 10 NM

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

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

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

15. How is referred to a tubular steel construction with a non self-supporting skin?

- a) Grid construction
- b) Honeycomb structure
- c) Monocoque construction
- d) Semi-monocoque construction

16. 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

17. During a left turn, the yaw string is drawn to the left from centre position. By what rudder input can the string be centreed 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

18. The trim is used to...

- a) Adapt the control force
- b) Increase adverse yaw
- c) Move the centre of gravity
- d) Lock control elements

19. 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

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

20. An energy-compensated vertical speed indicator (VSI) shows during stationary glide the vertical speed...

- a) Of the glider through surrounding air
- b) Of the airmass flown through
- c) Of the glider plus movement of the air
- d) Of the glider minus movement of the air

21. A distance of 7.5 cm on an aeronautical chart represents a distance of 60.745 NM in reality. What is the chart scale?

- a) 1 : 500000
- b) 1 : 1500000
- c) 1 : 1000000
- d) 1 : 150000

22. A sailplane is about to pitch down due to stall. What rudder input can prevent nose-dive and spin?

- a) Ailerons neutral, rudder strongly kicked to lower wing
- b) Release elevator, rudder opposite to lower wing
- c) Keep aeroplane in level flight using rudder pedals
- d) Slightly pull the elevator, ailerons opposite to lower wing

23. 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

24. 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

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

25. 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

26. Two engine-driven aircraft are flying on crossing courses at the same altitude. Which one has to divert?

- a) Both have to divert to the left
- b) The lighter one has to climb
- c) The heavier one has to climb
- d) Both have to divert to the right

27. 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

28. 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

29. The gliding weather report states environmental instability. In the morning, dew covers grass and no thermals are presently active. What development can be expected for thermal activity?

- a) Formation of dew prevents all thermal activity during the following day
- b) With ongoing insolation and ground warming, thermal lifting is likely to begin
- c) Environmental instability prevents air from being lifted and no thermals will be generated
- d) After sunset and formation of a ground-level inversion thermal activity is likely to begin

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

30. The right aileron deflects upwards, the left downwards. How does the aircraft react?

- a) Rolling to the left, no yawing
- b) Rolling to the right, yawing to the left
- c) Rolling to the left, yawing to the right
- d) Rolling to the right, yawing to the right

31. 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

32. What change in thermal activity may be expected with cirrus clouds coming up from one direction and becoming more dense, blocking the sun?

- a) Cirrus clouds may intensify insolation and improve thermal activity
- b) Cirrus clouds indicate an high-level inversion with thermal activity ongoing up to that level
- c) Cirrus clouds prevent insolation and impair thermal activity.
- d) Cirrus clouds indicate instability and beginning of over-development

33. 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

34. What has to be checked before any change in direction during glide?

- a) Check for turn to be flown coordinated
- b) Check for thermal clouds
- c) Check for loose object secured
- d) Check for free airspace in desired direction

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

35. What is the meaning of the phrase "Roger"?

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

36. The correct transponder code for emergencies is...

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

37. Which of the following options is likely to produce large induced drag?

- a) Large aspect ratio
- b) Small aspect ratio
- c) Low lift coefficients
- d) Tapered wings

38. During slope soaring you have the hill to your left side, another glider is approaching from the opposite side at the same altitude. How do you react?

- a) You divert to the right
- b) You expect the opposite glider to divert
- c) You divert to the right and expect the opposite glider to do the same
- d) You pull on the elevator and divert upward

39. How can dangerous situations be prevented when the sailplane approaches close to a pattern altitude during a cross-country flight?

- a) Try to reach cumulus clouds visible at the far horizon and use their thermal updrafts
- b) Despite the planned flight, decide for an off-field landing
- c) Maintain radio communication up to full stop after off-field landing
- d) Search for thermal updrafts on the lee side of a selected landing field

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

40. A pilot licence issued in accordance with ICAO Annex 1 is valid in...

- a) Those countries that have accepted this licence on application
- b) The country where the licence was acquired
- c) All ICAO countries
- d) The country where the licence was issued

41. 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

42. How can a pilot confirm a search and rescue signal on ground in flight?

- a) Push the rudder in both directions multiple times
- b) Fly in a parabolic flight path multiple times
- c) Rock the wings
- d) Deploy and retract the landing flaps multiple times

43. 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

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

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

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

45. Which parts of an aircraft mainly affect the generation of induced drag?

- a) The front part of the fuselage
- b) The outer part of the ailerons
- c) The lower part of the gear
- d) The wing tips

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

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

47. Which of the following documents have to be on board for an international flight? a) Certificate of aircraft registration b) Certificate of airworthiness c) Airworthiness review certificate d) EASA Form-1 e) Aeroplane logbook f) Appropriate papers for every crew member g) Technical logbook

- a) D, f, g
- b) B, c, d, e, f, g
- c) A, b, c, e, f
- d) A, b, e, g

48. Which statement about a rhumb line is correct?

- a) A rhumb line is a great circle intersecting the equator with 45° angle
- b) The centre of a complete cycle of a rhumb line is always the Earth's centre
- c) A rhumb line cuts each meridian at the same angle
- d) The shortest track between two points along the Earth's surface follows a rhumb line

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

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



50. What is the purpose of the secondary flight controls?

- a) To improve the performance characteristics of an aircraft and relieve the pilot of excessive control forces
- b) To improve the turn characteristics of an aircraft in the low speed regime during approach and landing
- c) To enable the pilot to control the aircraft's movements about its three axes
- d) To constitute a backup system for the primary flight controls

51. 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

52. The Caution Area is marked on an airspeed indicator by what color?

- a) Red
- b) Green
- c) White
- d) Yellow

53. The total weight of an aeroplane is acting vertically through the...

- a) Stagnation point
- b) Centre of pressure
- c) Neutral point
- d) Centre of gravity

54. Regarding the type of cloud, precipitation is classified as...

- a) Showers of snow and rain
- b) Prolonged rain and continuous rain
- c) Rain and showers of rain
- d) Light and heavy precipitation

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

55. Which transponder code indicates a loss of radio communication?

- a) 2000
- b) 7600
- c) 7000
- d) 7700

56. An aircraft is following a true course (TC) of 220° at a constant TAS of 220 kt. The wind vector is 270°/50 kt. The ground speed (GS) equals...

- a) 185 kt
- b) 255 kt
- c) 170 kt
- d) 135 kt

57. 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

58. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are the VAR and the DEV?

- a) VAR: 004° E. DEV: -002°
- b) VAR: 004° W. DEV: +002°
- c) VAR: 004° E. DEV: +002°
- d) VAR: 004° W. DEV: -002°

59. 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

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

60. 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

61. 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

62. 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

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

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

64. Which phrase does a pilot use when he / she wants to check the readability of his / her transmission?

- a) Request readability
- b) What is the communication like?
- c) You read me five
- d) How do you read?

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

65. Above the friction layer, with a prevailing pressure gradient, the wind direction is...

- a) At an angle of 30° to the isobars towards low pressure.
- b) Perpendicular to the isobars.
- c) Parallel to the isobars.
- d) Perpendicular to the isohypses.

66. 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

67. 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

68. 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

69. How do induced drag and parasite drag change with increasing airspeed during a horizontal and stable cruise flight?

- a) Parasite drag decreases and induced drag increases
- b) Induced drag decreases and parasite drag increases
- c) Parasite drag decreases and induced drag decreases
- d) Induced drag increases and parasite drag increases

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

70. 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

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

Response Scheme

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

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

Exam simulation

SPL - Sailplane Pilot License - Meteorology



QuizVds.it

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: _____		