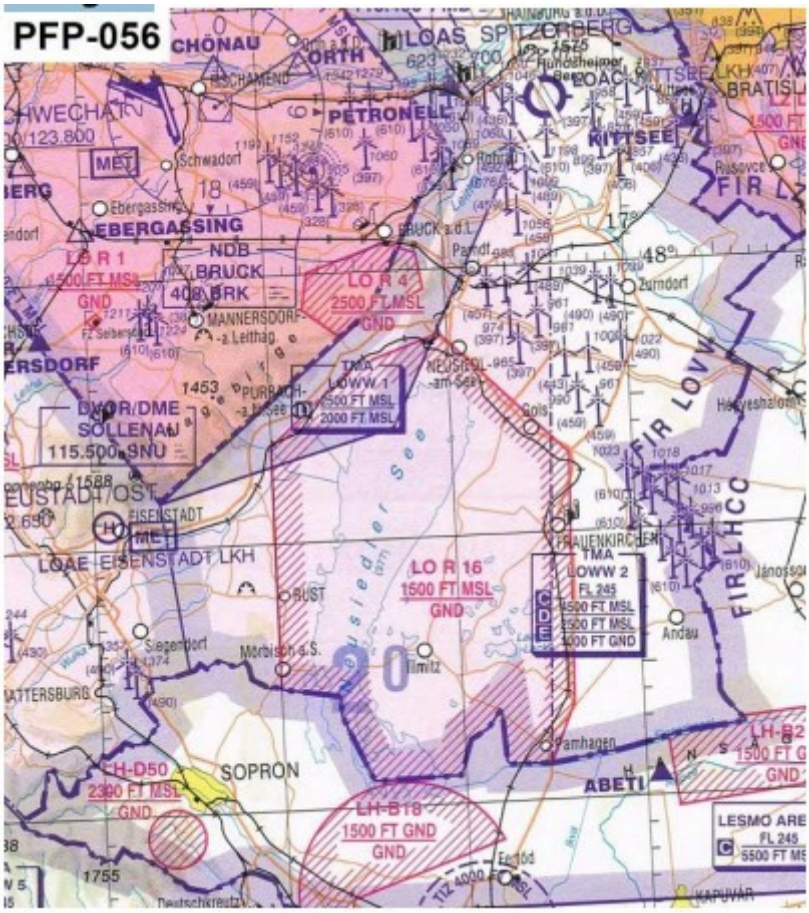
Exam simulation

SPL - Sailplane Pilot Licence - Meteorology

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STUDENT NAME:	DATE AND TIME:

01. 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

02. During thermal soaring, another sailplane is following close by. What should be done to avoid a collision?

a) You reduce speed to let the other sailplane fly by
b) You reduce bank to achieve a larger turn radius
c) You increase bank to be better seen from the other sailplane
d) You increase speed to achieve a position opposite in the circle

03. 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

04. 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

05. The thickness of the wing is defined as the distance between the lower and the upper side of the wing at the...

a) Thinnest part of the wing

b) Most inner part of the wing

c) Thickest part of the wing

d) Most outer part of the wing

06. Of what shape is a landing direction indicator?

a) T

b) A straight arrow

c) L

d) An angled arrow

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

a) 7600

b) 7500

c) 7700

d) 7000

08. What does the abbreviation "HX" stand for?

a) 24 h service

b) Sunrise to sunset

c) No specific opening hours

d) Sunset to sunrise

09. Unless the aircraft is equipped and certified accordingly...

a) Flight into forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, the flight may be continued as long as visual meteorological conditions are maintained.

b) Flight into known or forecast icing conditions is only allowed as long as it is ensured that the aircraft can still be operated without performance degradation.

c) Flight into known or forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, it should be left without delay

d) Flight into areas of precipitation is prohibited.

10. An aircraft is flying with a true airspeed (TAS) of 180 kt and a headwind component of 25 kt for 2 hours and 25 minutes. The distance flown equals...

a) 693 NM

b) 202 NM

c) 375 NM

d) 435 NM

11. What is the meaning of the phrase "Approved"?

a) I understand your message and will comply with it

b) Permission for proposed action is granted

c) I have received all of your last transmission

d) An error has been made in this transmission. The correct version is...

12. Which are the official basic units for horizontal distances used in aeronautical navigation and their abbreviations?

a) Nautical miles (NM), kilometers (km)

b) Land miles (SM), sea miles (NM)

c) Yards (yd), meters (m)

d) Feet (ft), inches (in)

13. 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

14. 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

15. What is the correct designation of the frequency band from 118.000 to 136.975 MHz used for voice communication?

a) MF

b) LF

c) HF

d) VHF

16. Under Article 33 of the Chicago Convention, when must other Contracting States recognise a pilot licence issued or rendered valid by the State of registry?

a) Whenever any flight school issues a course-completion certificate.

b) Only if the holder is a citizen of the State where the flight takes place.

c) When the requirements for its issue or validation meet or exceed the minimum standards established under the Convention.

d) Whenever it permits unrestricted paid flying in every country.

17. 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

18. What types of boundary layers can be found on an aerofoil?

a) Laminar boundary layer along the complete upper surface with non-separated airflow
b) Turbulent layer at the leading wing areas, laminar boundary layer at the trailing areas
c) Turbulent boundary layer along the complete upper surface with separated airflow
d) Laminar layer at the leading wing areas, turbulent boundary layer at the trailing areas

19. 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

20. An aircraft must be loaded and operated in such a way that the centre of gravity (CG) stays within the approved limits during all phases of flight. This is done to ensure...

a) That the aircraft does not exceed the maximum permissible airspeed during a descent
b) Both stability and controllability of the aircraft
c) That the aircraft does not tip over on its tail while it is being loaded.
d) That the aircraft does not stall.

21. How can a wind direction indicator be marked for better visibility?

a) The wind direction indicator may be mounted on top of the control tower
b) The wind direction indicator could be made from green materials
c) The wind direction indicator could be surrounded by a white circle
d) The wind direction indicator could be located on a big black surface

22. 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

23. What is the true course (TC) from Uelzen (EDVU) (52°59'N, 010°28'E) to Neustadt (EDAN) (53°22'N, 011°37'E)? Use figure (NAV-031)



a) 241°
b) 055°
c) 235°
d) 061°

24. What is the function of the blood platelets (thrombocytes)?

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

25. 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

26. 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

27. 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

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 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

30. Which factor shortens landing distance?

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

31. What is the advantage of differential aileron movement?

a) The drag of the downwards deflected aileron is lowered and the adverse yaw is smaller
b) The total lift remains constant during aileron deflection
c) The ratio of the drag coefficient to lift coefficient is increased
d) The adverse yaw is higher

32. Rotation around the lateral axis is called...

a) Yawing
b) Pitching
c) Rolling
d) Stalling

33. 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

34. 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

35. What phenomenon is referred to as "blue thermals"?

a) Thermals with less than 4/8 Cu coverage
b) Descending air between Cumulus clouds
c) Turbulence in the vicinity of Cumulonimbus clouds
d) Thermals without formation of Cu clouds

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

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

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

38. Exceeding the maximum allowed aircraft mass is...

a) Compensated by the pilot's control inputs
b) Only relevant if the excess is more than 10 %
c) Exceptionally permissible to avoid delays
d) Not permissible and essentially dangerous

39. 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

40. What pressure pattern can be observed during the passage of a polar front low?

a) Rising pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front

b) Rising pressure in front of the warm front, rising pressure within the warm sector, falling pressure behind the cold front

c) Falling pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front

d) Falling pressure in front of the warm front, constant pressure within the warm sector, falling pressure behind the cold front

41. Is it possible to enter airspace C with a glider plane?

a) Yes, but only with transponder activated

b) No

c) With restrictions, in case of less air traffic

d) Yes, but only with approval of the respective ATC unit

42. 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

43. 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

44. In case of a stall it is important to...

a) Increase the angle of attack and increase the speed
b) Decrease the angle of attack and increase the speed
c) Increase the angle of attack and reduce the speed
d) Increase the bank angle and reduce the speed

45. Which dangerous attitudes are often combined?

a) Invulnerability and self-abandonment
b) Self-abandonment and macho
c) Macho and invulnerability
d) Impulsivity and carefulness

46. If there is any doubt about ambiguity, a time of 1620 is to be transmitted as...

a) Sixteen twenty
b) Two zero
c) One six two zero
d) One thousand six hundred two zero

47. All aerodynamic forces can be considered to act on a single point. This point is called...

a) Centre of gravity
b) Lift point
c) Transition point
d) Centre of pressure

48. What type of turbulence is typically found close to the ground on the lee side during Foehn conditions?

a) Clear-air turbulence (CAT)
b) Inversion turbulence
c) Turbulence in rotors
d) Thermal turbulence

49. An off-field landing with tailwind is inevitable. How should the landing be conducted?

a) Approach with reduced speed, expect shorter flare and ground roll distance
b) Normal approach, when reaching landing site, extend spoiler flaps and push down elevator
c) Approach with normal speed, expect longer flare and ground roll distance
d) Approach with increased speed without use of spoiler flaps

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

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

51. 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

52. What negative impacts may be expected during circling overhead industrial facilities?

a) Health impairments by pollutants, reduced visibility and turbulences
b) Strong electrostatic charging and deterioration in radio communication
c) Very poor visibility of only few hundred meters and heavy precipitation
d) Extended, strong downwind areas on the lee side of the facility

53. Before a winch launch, you detect a light tailwind. What has to be considered?

a) Roll until lift-off will take a little longer, watch speed
b) A weaker rated-brake-point can be used, load will be smaller
c) Roll until lift-off will be shorter since tailwind is pushing from behind
d) To reach more height, full pull on the elevator after lift-off

54. Which area could be crossed with certain restrictions?

a) No-fly zone

b) Restricted area

c) Prohibited area

d) Dangerous area

55. Urgency messages are defined as...

a) Messages concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance

b) Messages concerning urgent spare parts which are needed for a continuation of flight and which need to be ordered in advance

c) Information concerning the apron personnel and which imply an imminent danger to landing aircraft

d) Messages concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight

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

a) Unlimited

b) 12 years

c) 6 months

d) 12 months

57. 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

58. What conditions are mandatory for the formation of thermal thunderstorms?

a) Absolutely stable atmosphere, high temperature and high humidity

b) Absolutely stable atmosphere, high temperature and low humidity

c) Conditionally unstable atmosphere, high temperature and high humidity

d) Conditionally unstable atmosphere, low temperature and low humidity

59. 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

60. 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

61. 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

62. 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

63. The connection between middle ear and nose and throat region is called...

a) Inner ear
b) Eardrum
c) Cochlea
d) Eustachian tube

64. The shown NOTAM is valid until... A1024/25 A) LOWW B) 2505211200 C) 2505211400 E) STOCKERAU VOR STO 113.00 UNSERVICEABLE.

a) 13/10/2025 00:00 UTC
b) 21/05/2026 13:00 UTC
c) 21/05/2025 14:00 UTC
d) 13/05/2025 12:00 UTC

65. Under which circumstances is it more likely to accept higher risks?

a) Due to group-dynamic effects
b) If there is not enough information available
c) During check flights due to a high level of nervousness
d) During flight planning when excellent weather is forecast

66. 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

67. What is the purpose of winglets?

a) To increase efficiency of aspect ratio
b) Reduction of induced drag.
c) Increase gliding performance at high speed
d) Increase of lift and turning manoeuvring capabilities

68. What is the correct way of acknowledging the instruction "DZF after lift-off climb straight ahead until 2500 feet before turning right heading 220 degrees, wind 090 degrees, 5 knots, runway 12, cleared for take-off"?

a) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots
b) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots, cleared for take-off
c) DZF after lift-off climb straight ahead 2500 feet, wilco, heading 220 degrees, 090 degrees, 5 knots, cleared for take-off
d) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, runway 12, cleared for take-off

69. Two aircraft are approaching head-on, or approximately so, and there is a danger of collision. What must each pilot do?

a) Alter course to the left.

b) The pilot of the heavier aircraft must climb.

c) The pilot of the lighter aircraft must climb.

d) Alter course to the right.

70. What is the meaning of "DETRESFA"?

a) Distress phase

b) Alerting phase

c) Uncertainty phase

d) Rescue phase

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Response Scheme

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

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

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