Exam simulation

SPL - Sailplane Pilot License - Operational Procedures

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STUDENT NAME:	DATE AND TIME:

01. 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

02. Visual illusions are mostly caused by...

a) Binocular vision.

b) Colour blindness.

c) Rapid eye movements.

d) Misinterpretation of the brain.

03. 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

04. 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

05. A plane flying below an extended Cumulus cloud developing into a thunderstorm, the glider plane quickly approaches the cloud base. What actions have to be taken by the glider pilot?

a) Extend spoiler flaps within speed limits, leave thermal lift area with maximum permissible speed

b) Fasten seat belts, be aware of severe gust during further thermaling

c) Reduce to minimum speed, leave thermal lift area in a flat turn

d) Climb into thunderstorm cloud, continue flight using instruments

06. What is the meaning of the red range on the airspeed indicator?

a) Speed which must not be exceeded regardless of circumstances

b) Speed which must not be exceeded within bumpy air

c) Speed which must not be exceeded with flaps extended

d) Speed which must not be exceeded in turns with more than 45° bank

07. 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

08. 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

09. During a flight at FL 80, the altimeter setting has to be...

a) Local QFE

b) Local QNH

c) 1030.25 hPa

d) 1013.25 hPa

10. The movement of air flowing apart is called...

a) Convergence.
b) Concordence.
c) Subsidence.
d) Divergence.

11. Of what shape is a landing direction indicator?

a) T
b) A straight arrow
c) L
d) An angled arrow

12. The distance between the centre of gravity and the datum is called...

a) Lever
b) Torque
c) Span width
d) Balance arm

13. Clouds are basically distinguished by what types?

a) Thunderstorm and shower clouds
b) Cumulus and stratiform clouds
c) Stratiform and ice clouds
d) Layered and lifted clouds

14. 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

15. 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

16. 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

17. How are rhumb lines and great circles depicted on a direct Mercator chart?

a) Rhumb lines: straight lines Great circles: curved lines
b) Rhumb lines: straight lines Great circles: straight lines
c) Rhumb lines: curved lines Great circles: straight lines
d) Rhumb lines: curved lines Great circles: curved lines

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

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

19. During a winch launch, just after stabilizing full climb attitude, the pull on cable suddenly stops. What action should be taken by the glider pilot?

a) Push slightly, wait for pull on cable to be re-established
b) Inform winch driver by alternate aileron input
c) Push firmly and decouple cable immediately
d) Pull on elevator to increases cable tension

20. Which of the following conditions are most favourable for ice accretion?

a) Temperatures between 0° C and -12° C, presence of supercooled water droplets (clouds)
b) Temperatures below 0° C, strong wind, sky clear of clouds
c) Temperatures between -20° C and -40° C, presence of ice crystals (Ci clouds)
d) Temperatures between +10° C and -30° C, presence of hail (clouds)

21. How do dew point and relative humidity change with decreasing temperature?

a) Dew point decreases, relative humidity increases
b) Dew point remains constant, relative humidity increases
c) Dew point increases, relative humidity decreases
d) Dew point remains constant, relative humidity decreases

22. What has to be considered for the speed during approach and landing?

a) Wind speed and weight
b) Altitude and weight
c) Wind speed and Altitude
d) Weight and wind speed

23. 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

24. What is a latent error?

a) An error which only has consequences after landing
b) An error which has an immediate effect on the controls
c) An error which is made by the pilot actively and consciously
d) An error which remains undetected in the system for a long time

25. Collisions during circling within thermal updrafts can be avoided by...

a) Alternate circling with opposite directions in different heights
b) Imitating the movements of the preceding sailplane
c) Coordination of plane movements with other aircrafts circling within the same updraft
d) Fast approach into the updraft and rapidly pulling the elevator for slower speed

26. Which of the stated materials shows the highest strength?

a) Magnesium
b) Carbon fiber reinforced plastic
c) Aluminium
d) Wood

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

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

28. 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 %

29. Which statement about lift and angle of attack is correct?

a) Increasing the angle of attack too far may result in a loss of lift and an airflow separation
b) Increasing the angle of attack results in less lift being generated by the aerofoil
c) Decreasing the angle of attack results in more drag being generated by the aerofoil
d) Too large angles of attack can lead to an exponential increase in lift

30. 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

31. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?

a) Roger

b) Squawk 4321, 131.325

c) Squawk 4321, wilco

d) Wilco

32. After reaching what height during winch launch the maximum pitch position can be taken?

a) From approx. 50 m while maintaining a safe speed for winch launch

b) From 15 m while reaching a speed of at least 90 km/h

c) From 150 m or higher, when in case of cable break landing straight ahead is no longer possible

d) Shortly after lift-off, provided a sufficiently strong headwind

33. Which advisory information from a ground station does not normally require readback?

a) Altimeter setting

b) Traffic information

c) Heading

d) Taxi instructions

34. 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

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

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

36. 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

37. 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

38. 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

39. Which altitude is displayed on the altimeter when set to a specific QFE?

a) Altitude in relation to the 1013.25 hPa datum
b) Altitude in relation to the air pressure at the reference airfield
c) Altitude in relation to mean sea level
d) Altitude in relation to the highest elevation within 10 km

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. 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

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

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

43. 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)

44. Flying slow close to stall conditions, the left wing is lower than the right wing. How can the stall be prevented?

a) Push on the elevator, keep wings level with coordinated inputs on rudder and aileron
b) Aileron and rudder to the right, gain some speed, push slightly on the elevator, all controls neutral
c) Aileron to the right, push slightly on the elevator, gain some speed, all controls neutral
d) Rudder left, push slightly on the elevator, gain some speed, all controls neutral

45. 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

46. 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

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

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

48. What is the correct term for an involuntary and stereotypical reaction of an organism to the stimulation of a receptor?

a) Reduction
b) Coherence
c) Virulence
d) Reflex

49. During approach to the next updraft, the vertical speed indicator reads 3 m/s descent. Within the updraft you expect a mean rate of climb of 2 m/s. According to McCready, how should you adjust the speed during approach of the updraft?

a) The McCready ring should be set to 2 m/s, the recommended speed can be read at the McCready scale next to the sum of current rate of descent at expected rate of climb (5 m/s)

b) The McCready ring should be set to 3 m/s, the recommended speed can be read at the McCready scale next to the expected rate of climb (2 m/s)

c) The McCready ring should be set to 2 m/s, the recommended speed can be read at the McCready scale next to the current rate of descent (3 m/s)

d) Outside of thermal cells, the McCready ring should be set to 0 m/s, the recommended speed can be read at the McCready scale next to the current rate of descent (3 m/s)

50. 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.

51. The compass error caused by the aircraft's magnetic field is called...

a) Inclination

b) Variation

c) Deviation

d) Declination

52. 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

53. UTC is...

a) A zonal time
b) Local mean time at a specific point on Earth
c) An obligatory time used in aviation
d) A local time in Central Europe

54. The character of an air mass is given by what properties?

a) Wind speed and tropopause height
b) Environmental lapse rate at origin
c) Region of origin and track during movement
d) Temperatures at origin and present region

55. What structural item provides directional stability to an aeroplane?

a) Differential aileron deflection
b) Wing dihedral
c) Large elevator
d) Large vertical tail

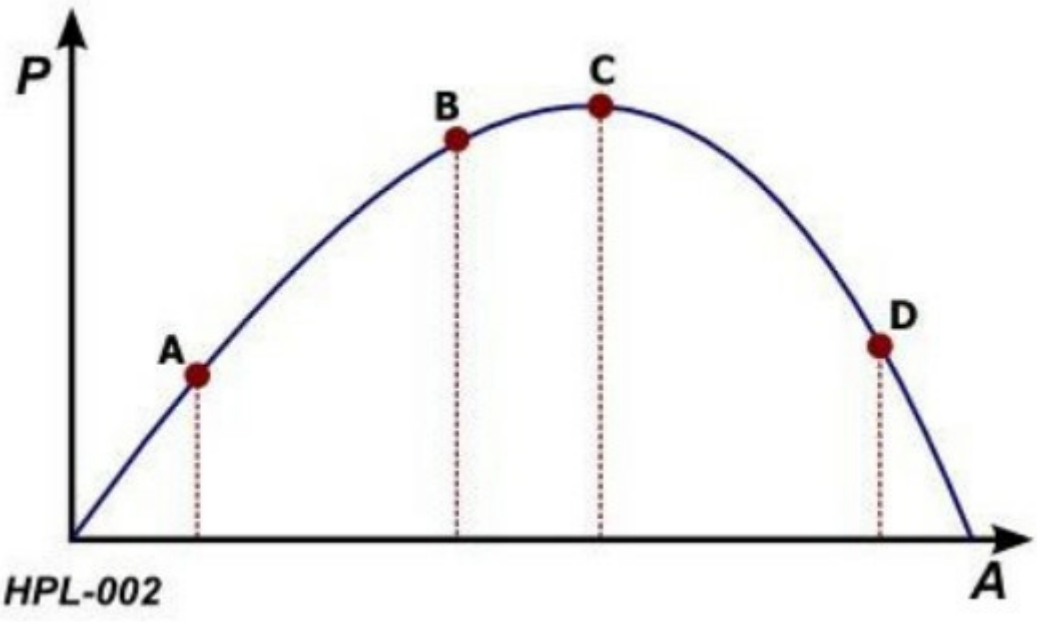
56. During a flight in colder-than-ISA air the indicated altitude is...

a) Higher than the true altitude
b) Equal to the true altitude
c) Equal to the standard altitude
d) Lower than the true altitude

57. The drag coefficient...

a) Is proportional to the lift coefficient
b) Increases with increasing airspeed
c) May range from zero to an infinite positive value
d) Cannot be lower than a non-negative, minimal value

58. The ideal level of arousal is at which point in the diagram? See figure (HPL- 002) P = Performance A = Arousal / Stress



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

59. 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

60. A movement around the longitudinal axis is primarily initiated by the...

a) Elevator
b) Ailerons
c) Trim tab
d) Rudder

61. Which optical illusion might be caused by a runway with an upslope during the approach?

a) The pilot has the feeling that the approach is too low and therefore approaches the runway above the regular glide slope

b) The pilot has the feeling that the approach is too slow and speeds up above the normal approach speed

c) The pilot has the feeling that the approach is too fast and reduces the speed below the normal approach speed

d) The pilot has the feeling that the approach is too high and therefore descents below the regular glide slope

62. Which answer is correct concerning stress?

a) Everybody reacts to stress in the same manner

b) Stress and its different symptoms are irrelevant for flight safety

c) Stress can occur if there seems to be no solution for a given problem

d) Training and experience have no influence on the occurrence of stress

63. What is the correct term for the system which, among others, controls breathing, digestion, and heart frequency?

a) Critical nervous system

b) Autonomic nervous system

c) Automatical nervous system

d) Compliant nervous system

64. What is the great circle distance between two points A and B on the equator when the difference between the two associated meridians is exactly one degree of longitude?

a) 400 NM

b) 120 NM

c) 216 NM

d) 60 NM

65. What is the correct way to transmit the call sign HB-YKM?

a) Hotel Bravo Yuliett Kilo Mikro

b) Home Bravo Yuliett Kilo Mike

c) Hotel Bravo Yankee Kilo Mike

d) Home Bravo Yankee Kilo Mikro

66. 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

67. 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

68. What is the approximate speed of electromagnetic wave propagation?

a) 123000 m/s
b) 300000 km/s
c) 123000 km/s
d) 300000 m/s

69. 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

70. Despite several attempts, the landing gear can be extended, but not locked. How should the landing be conducted?

a) Keep gear unlocked and perform normal landing
b) Keep a firm grip on gear handle during normal landing
c) Retract landing gear and perform belly landing with minimum speed
d) Retract gear and perform belly landing with increased speed

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Response Scheme

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

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

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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:
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45:	46:	47:	48:
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69:	70:		