Exam simulation

SPL - Sailplane Pilot Licence - Communications

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STUDENT NAME:	DATE AND TIME:

01. The mass loaded on the plane is lower than the minimum load required by the load sheet. What action has to be taken?

a) Trim aircraft to "pitch down"
b) Change pilot seat position
c) Change incident angle of elevator
d) Load ballast weight up to minimum load

02. 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...

03. Before the launch using a parallel-cable winch, the glider pilot realizes the second cable lying close to his glider about to launch. What actions should be taken by the glider pilot?

a) Keep an eye on second cable, decouple after take-off if necessary
b) Continue launch with rudder input on opposite direction to second cable
c) Conduct normal take-off, inform airfield controller after landing
d) Decouple cable immediately, inform airfield controller via radio

04. What is the distance between the two parallels of longitude 150°E and 151°E along the equator?

a) 111 NM
b) 60 km
c) 1 NM
d) 60 NM

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05. The altimeter has to be set to what value in order to show zero on ground?

a) QTE
b) QFE
c) QNE
d) QNH

06. Measured pressure distribution in MSL and corresponding frontal systems are displayed by the...

a) Hypsometric chart
b) Prognostic chart
c) Surface weather chart
d) Significant Weather Chart (SWC)

07. 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

08. 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

09. What does a readability of 2 indicate?

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

10. 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

11. 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

12. Which are the different parts of the Aeronautical Information Publication (AIP)?

a) GEN MET RAC
b) GEN AGA COM
c) GEN COM MET
d) GEN ENR AD

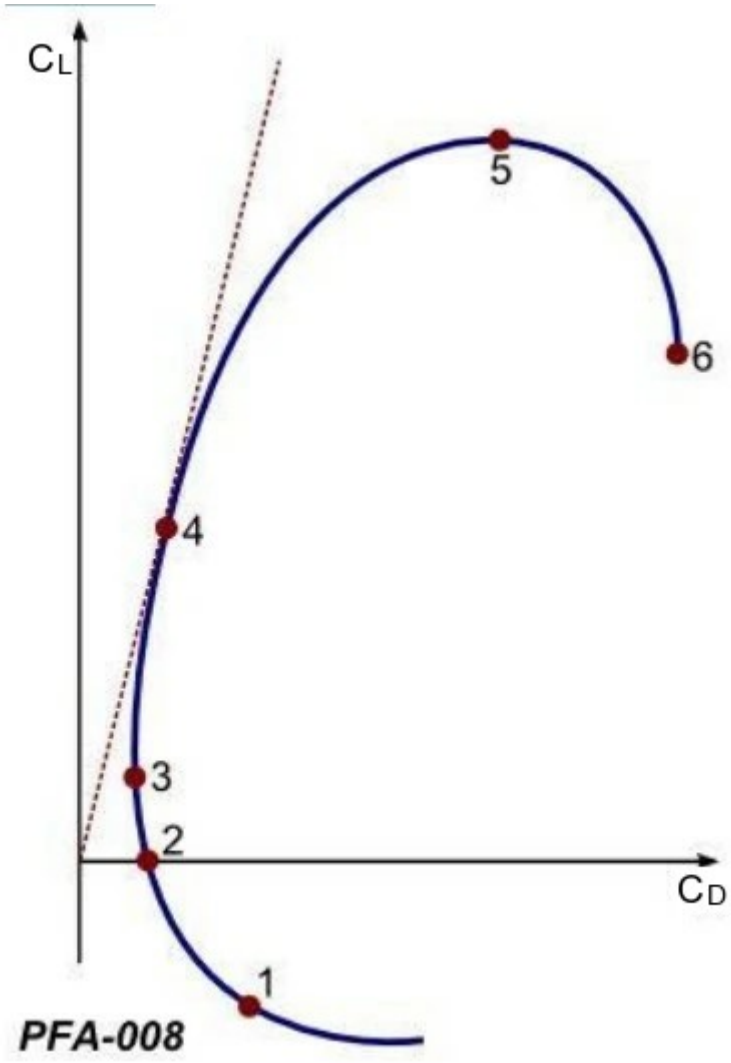
13. What color has the emergency hood release handle?

a) Green
b) Red
c) Yellow
d) Blue

14. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 360° to a heading of 270°. At approximately which indication of the magnetic compass should the turn be terminated?

a) 360°
b) 270°
c) 240°
d) 300°

15. Point number 1 in the figure indicates which flight state? See figure (PFA-008)



a) Inverted flight
b) Slow flight
c) Stall
d) Best gliding angle

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

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

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

a) No specific opening times

b) 24 h service

c) Sunrise to sunset

d) Sunset to sunrise

18. What kind of reduction in visibility is not very sensitive to changes in temperature?

a) Radiation fog (FG)

b) Mist (BR)

c) Patches of fog (BCFG)

d) Haze (HZ)

19. Which statement is correct with regard to the polar axis of the Earth?

a) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is perpendicular to the plane of the equator

b) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is at an angle of 66.5° to the plane of the equator

c) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is at an angle of 23.5° to the plane of the equator

d) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is perpendicular to the plane of the equator

20. What is the call sign of the surface movement control?

a) Control

b) Tower

c) Earth

d) Ground

21. During flight you have to solve a problem, how do you proceed?

a) There is no time for solving problems during flight

b) Solve problem immediately, otherwise refer to the operating handbook

c) Contact other pilot via radio for help, keep flying

d) Primarily fly the aeroplane and keep it stable, then attend to the problem and keep flying the aeroplane

22. Who provides search and rescue service?

a) Only civil organisations

b) Both military and civil organisations

c) Only military organisations

d) International approved organisations

23. Two aeroplanes are flying on crossing tracks. Which one has to divert?

a) Both have to divert to the left

b) The aircraft which flies from left to right has the right of priority

c) Both have to divert to the right

d) The aircraft which flies from right to left has the right of priority

24. 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.

25. 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

26. During a high altitude flight (6000 m MSL), the glider pilot realizes that oxygen will be consumed within a few minutes. What actions should be taken by the glider pilot?

a) After depletion of oxygen, stay at that altitude no longer than 30 min

b) At first indication of hypoxia, commence descent with maximum allowed speed

c) Extend spoiler flaps, descent with maximum permissible speed

d) Reduce oxygen flow by breathing slowly

27. 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

28. The angle between the true course and the true heading is called...

a) Variation
b) Inclination
c) Deviation
d) WCA

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

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

30. The ongoing process to monitor the current flight situation is called...

a) Situational thinking
b) Situational awareness.
c) Anticipatory check procedure
d) Constant flight check

31. 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

32. 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

33. An aircraft cruises on a heading of 180° with a true airspeed of 100 kt. The wind comes from 180° with 30 kt. Neglecting instrument and position errors, which will be the approximate reading of the airspeed indicator?

a) 130 kt

b) 100 kt

c) 30 kt

d) 70 kt

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

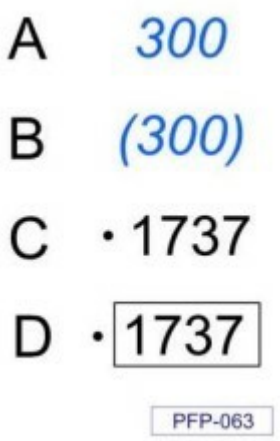
a) Mechanical overload

b) No indication

c) Indication too low

d) Indication too high

35. Using annex PFP-063, which ICAO chart symbol indicates a general spot elevation?



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

36. What is the function of the static rudder balance?

a) To prevent control surface flutter
b) To trim the controls almost without any force
c) To increase the control stick forces
d) To limit the control stick forces

37. If surrounded by airflow (v > 0), any arbitrarily shaped body produces...

a) Drag and lift
b) Drag
c) Lift without drag.
d) Constant drag at any speed

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

a) TH: 172°. DEV: +002°
b) TH: 172°. DEV: -002°
c) TH: 194°. DEV: -002°
d) TH: 194°. DEV: +002°

39. With regard to the forces acting, how can stationary gliding be described?

a) The sum of air forces acts along the direction of air flow
b) The sum of the air forces acts along with the lift force
c) The lift force compensates the drag force
d) The sum of air forces compensates the gravity force

40. 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

41. The term "inclination" is defined as...

a) Deviation induced by electrical fields
b) Angle between magnetic and true north
c) Angle between earth's magnetic field lines and horizontal plane
d) Angle between aeroplane's longitudinal axis and true north

42. What are the minimum distances to clouds for a VFR flight in airspace "B"?

a) Horizontally 1.500 m, vertically 300 m
b) Horizontally 1.500 m, vertically 1.000 m
c) Horizontally 1.000 m, vertically 300 m
d) Horizontally 1.000 m, vertically 1.500 ft

43. 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

44. 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

45. The barometric altimeter with QNH setting indicates...

a) True altitude above MSL.

b) Height above MSL

c) Height above the pressure level at airfield elevation.

d) Height above standard pressure 1013.25 hPa.

46. How does inflowing cold air affect the shape and vertical distance between pressure layers?

a) Increasing vertical distance, raise in height (high pressure)

b) Decreasing vertical distance, raise in height (high pressure)

c) Decrease in vertical distance, lowering in height (low pressure)

d) Increase in vertical distance, lowering in height (low pressure)

47. What must be considered for cross-border flights?

a) Transmission of hazard reports

b) Requires flight plans

c) Regular location messages

d) Approved exceptions

48. 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.

49. Which factor shortens landing distance?

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

50. 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

51. Which of the listed wing shapes has the lowest induced drag?

a) Rectangular shape
b) Trapezoidal shape
c) Elliptical shape
d) Double trapezoidal shape

52. 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

53. A transponder with the ability to send the current pressure level is a...

a) Transponder approved for airspace "B"
b) Mode C or S transponder
c) Pressure-decoder
d) Mode A transponder

54. Distress messages contain...

a) Information concerning urgent spare parts which are required for a continuation of flight and which have to be ordered in advance

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

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

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

55. Which pressure is sensed by the Pitot tube?

a) Dynamic air pressure

b) Cabin air pressure

c) Total air pressure

d) Static air pressure

56. Which levers in a glider's cockpit are indicated by the colours red, blue and green? Levers for usage of ...

a) Gear, speed brakes and elevator trim tab

b) Speed brakes, cable release and elevator trim

c) Speed brakes, cabin hood lock and gear

d) Cabin hood release, speed brakes, elevator trim

57. 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

58. Complacency is a risk due to...

a) Increased cockpit automation

b) The high error rate of technical systems

c) The high number of mistakes normally made by humans

d) Better training options for young pilots

59. What is the meaning of the phrase "Correction"?

a) I have received all of your last transmission

b) I understand your message and will comply with it

c) Permission for proposed action is granted

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

60. Cold air inflow in high tropospheric layers may result in...

a) Showers and thunderstorms

b) Frontal weather

c) Calm weather and cloud dissipation

d) Stabilisation and calm weather

61. During a winch launch, after reaching full climb attitude, the airspeed indicator fails. What action should be taken by the glider pilot?

a) Continue launch to normal altitude, use horizontal image and airstream noise to conduct flight as planned

b) Try to re-establish airspeed indication by abrupt changes of speed during launch

c) Push elevator, decouple cable and perform short pattern with minimum speed

d) Continue launch to normal altitude, use horizontal image and airstream noise for pattern and landing right away

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

a) 24 h service

b) Sunrise to sunset

c) No specific opening hours

d) Sunset to sunrise

63. Weather and operational information about the destination aerodrome can be obtained during the flight by...

a) PIREP

b) SIGMET

c) ATIS

d) VOLMET

64. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +11°C. The QNH altitude is 6500 ft. The true altitude equals...

a) 6500 ft
b) 7000 ft
c) 6250 ft
d) 6750 ft

65. 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

66. What pressure pattern may result from cold-air inflow in high tropospheric layers?

a) Alternating pressure
b) Formation of a large ground low
c) Formation of a high in the upper troposphere
d) Formation of a low in the upper troposphere

67. What is the correct phrase to begin a blind transmission?

a) Listen
b) Blind
c) Transmitting blind
d) No reception

68. 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

69. 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

70. 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

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Response Scheme

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

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

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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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45:	46:	47:	48:
49:	50:	51:	52:
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69:	70:		

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