Exam simulation

SPL - Sailplane Pilot Licence - Air Law

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STUDENT NAME:	DATE AND TIME:

01. Which statement about the airflow around an aerofoil is correct if the angle of attack decreases?

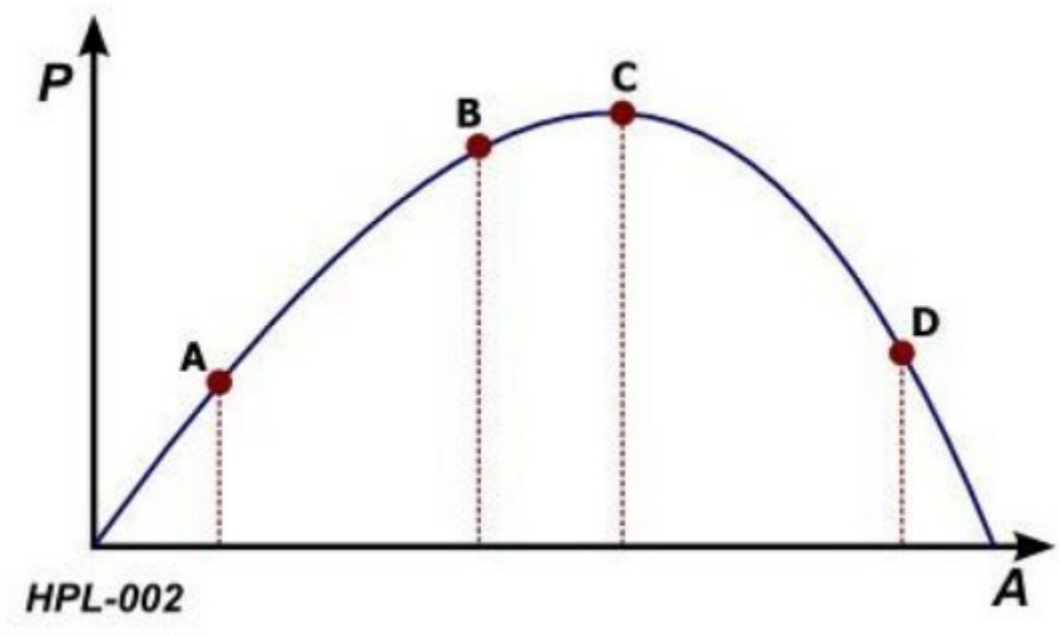
a) The centre of pressure moves aft
b) The centre of pressure moves forward
c) The stagnation point moves down
d) The stagnation point remains constant

02. Which of the mentioned cockpit instruments is connected to the pitot tube?

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

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03. 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

04. Distress messages are messages...

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

b) Concerning the operation or maintenance of facilities which are important for the safety and regularity of flight operations

c) Concerning aircraft and their passengers which face a grave and imminent threat and require assistance

d) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight

05. 1000 ft equal...

a) 300 m

b) 3000 m

c) 30 km

d) 30 m

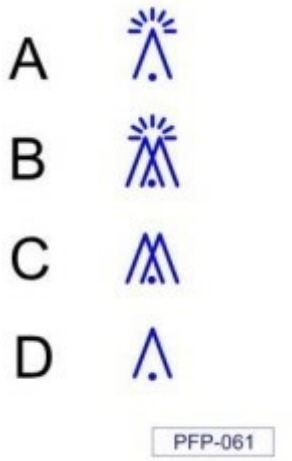
06. What is the great circle distance between two points A and B on the equator when the difference between the two associated meridians is exactly one degree of longitude?

a) 400 NM
b) 120 NM
c) 216 NM
d) 60 NM

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

a) Control
b) Tower
c) Earth
d) Ground

08. Using annex PFP-061, which ICAO chart symbol indicates a group of unlighted obstacles?



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

09. 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

10. What clouds and weather can typically be observed during the passage of a cold front?

a) Wind becoming calm, dissipation of clouds and warming during summer; formation of extended high fog layers during winter

b) Cirrus, thickening altostratus and altocumulus clouds, lowering cloud base with rain, nimbostratus

c) In coastal areas during daytime wind from the coast and forming of cumulus clouds, dissipation of clouds during evening and night

d) Strongly developed cumulus clouds (Cb) with showers of rain and thunderstorms, gusting wind followed by cumulus clouds with isolated showers of rain

11. The distance between two airports is 220 NM. On an aeronautical navigation chart the pilot measures 40.7 cm for this distance. The chart scale is...

a) 1 : 500000

b) 1 : 1000000

c) 1 : 250000

d) 1 : 2000000

12. 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

13. 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

14. 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

15. Which of the human senses is most influenced by hypoxia?

a) The olfactory perception (smell)
b) The tactile perception (sense of touch)
c) The auditory perception (hearing)
d) The visual perception (vision)

16. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +21°C. The QNH altitude is 6500 ft. The true altitude equals...

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

17. 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

18. Given: True course: 165°. TAS: 90 kt. Wind: 130°/20 kt. Distance: 153 NM. The true heading equals...

a) 152°
b) 158°
c) 165°
d) 126°

19. What leads to a decreased stall speed Vs (IAS)?

a) Lower density

b) Decreasing weight

c) Lower altitude

d) Higher load factor

20. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are TH and VAR?

a) TH: 194°. VAR: 004° E

b) TH: 194°. VAR: 004° W

c) TH: 172°. VAR: 004° W

d) TH: 172°. VAR: 004° E

21. 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

22. The fuselage structure may be damaged by...

a) Airspeed decreasing below a certain value

b) Neutralizing stick forces according to actual flight state

c) Exceeding the manoeuvring speed in heavy gusts

d) Stall after exceeding the maximum angle of attack

23. What kind of information should be included in an urgency message?

a) Nature of problem or observation, important information for support, departure aerodrome, information about position, heading and altitude

b) Intended routing, important information for support, intentions of the pilot, information about position, departure aerodrome, heading and altitude

c) Intended routing, important information for support, intentions of the pilot, departure aerodrome, destination aerodrome, heading and altitude

d) Nature of problem or observation, important information for support, intentions of the pilot, information about position, heading and altitude

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

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

25. During the last phase of a winch launch, the glider pilot does not release pull on the elevator. The automatic latch releases the cable at high wing load. What consequences have to be considered?

a) A higher altitude can be reached using this technique
b) Extreme stress on the structure of the glider plane
c) This technique can compensate for insufficient wind correction
d) Only by this sudden jerk the release of the cable can be assured

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

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

27. 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

28. What process results in the formation of "orographic fog" ("hill fog")?

a) Prolonged radiation during nights clear of clouds
b) Warm, moist air is moved across a hill or a mountain range
c) Evaporation from warm, moist ground area into very cold air
d) Cold, moist air mixes with warm, moist air

29. Two aircraft of the same type, same grossweight and same configuration fly at different airspeeds. Which aircraft will cause more severe wake turbulence?

a) The aircraft flying at lower altitude
b) The aircraft flying at higher speed
c) The aircraft flying at higher altitude
d) The aircraft flying at slower speed

30. 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

31. 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

32. Which conditions are likely for the formation of advection fog?

a) Warm, humid air cools during a cloudy night
b) Cold, humid air moves over a warm ocean
c) Humidity evaporates from warm, humid ground into cold air
d) Warm, humid air moves over a cold surface

33. What could be a reason for changing the runway indicators at aerodromes (e.g. from runway 06 to runway 07)?

a) The magnetic variation of the runway location has changed
b) The magnetic deviation of the runway location has changed
c) The true direction of the runway alignment has changed
d) The direction of the approach path has changed

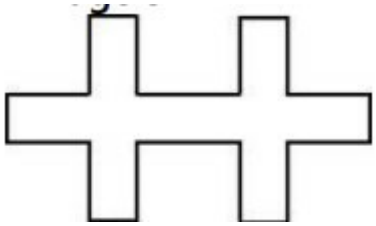
34. Which of the following options states the working principle of a vertical speed indicator?

a) Measuring the present static air pressure and comparing it to the static air pressure inside a reservoir
b) Measuring the vertical acceleration through the displacement of a gimbal-mounted mass
c) Total air pressure is measured and compared to static pressure
d) Static air pressure is measured and compared against a vacuum

35. What pressure pattern can be observed when a cold front is passing?

a) Continually increasing pressure
b) Shortly decreasing, thereafter increasing pressure
c) Continually decreasing pressure
d) Constant pressure pattern

36. What is the meaning of this sign at an aerodrome? See figure (ALW-011)



a) After take-off and before landing all turns have to be made to the right
b) Caution, manoeuvring area is poor
c) Glider flying is in progress
d) Landing prohibited for a longer period

37. What is the correct term for a message used for air traffic control?

a) Meteorological message
b) Message related to direction finding
c) Flight safety message
d) Flight regularity message

38. Which statement regarding a spin is correct?

a) During recovery the ailerons should be kept neutral

b) During the spin the speed constantly increases

c) During recovery the ailerons should be crossed

d) Only very old aeroplanes have a risk of spinning

39. Which abbreviation is used for the term "abeam"?

a) ABB

b) ABM

c) ABE

d) ABA

40. With only a slight crosswind, what is the danger at take-off after the departure of a heavy aeroplane?

a) Wake turbulence rotate faster and higher

b) Wake turbulence is amplified and distorted

c) Wake turbulence twisting transverse to the runway

d) Wake turbulence on or near the runway

41. 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

42. An aerodrome beacon (ABN) is a...

a) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air

b) Rotating beacon installed at the beginning of the final approach to indicate its location to aircraft pilots from the air

c) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air

d) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground

43. During airtow, the towing plane disappears from the glider pilot's sight. What action should be taken by the glider pilot?

a) Decouple cable immediately

b) Alternate push and pull on the elevator

c) Alternate turn to the left and to the right

d) Extend spoiler flaps and return to normal attitude

44. 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

45. 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

46. 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

47. What clouds and weather may result from a humid and unstable air mass, that is pushed against a chain of mountains by the predominant wind and forced to rise?

a) Embedded CB with thunderstorms and showers of hail and/or rain.

b) Smooth, unstructured NS cloud with light drizzle or snow (during winter).

c) Thin Altostratus and Cirrostratus clouds with light and steady precipitation.

d) Overcast low stratus (high fog) with no precipitation.

48. What is indicated by a pattern of longitudinal stripes of uniform dimensions disposed symmetrically about the centreline of a runway?

a) At this point the glide path of an ILS hits the runway

b) Do not touch down before them

c) Do not touch down behind them

d) A ground roll could be started from this position

49. Which transponder code indicates a radio failure?

a) 7500

b) 7700

c) 7000

d) 7600

50. What is the correct abbreviation of the call sign D-EAZF?

a) AZF

b) DZF

c) DEA

d) DEF

51. 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

52. Which air traffic service is responsible for the safe conduct of flights?

a) ATC (air traffic control)
b) AIS (aeronautical information service)
c) ALR (alerting service)
d) FIS (flight information service)

53. What has to be considered when operating a sailplane equipped with camber flaps?

a) During approach and landing, camber must not be changed from negative to positive
b) During approach and landing, camber must not be changed from positive to negative
c) During winch launch, camber must be set to full negative
d) During winch launch, camber must be set to full positive

54. 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

55. 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

56. How many satellites are necessary for a precise and verified three-dimensional determination of the position?

a) Two
b) Three
c) Five
d) Four

57. Given: True course: 255°. TAS: 100 kt. Wind: 200°/10 kt. The true heading equals...

a) 250°

b) 265°

c) 275°

d) 245°

58. 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

59. What pattern can be found at the stagnation point?

a) The boundary layer starts separating on the upper surface of the profile

b) All aerodynamic forces can be considered as attacking at this single point

c) The laminar boundary layer changes into a turbulent boundary layer

d) Streamlines are divided into airflow above and below the profile

60. When do you expect wind shear?

a) During an inversion

b) When passing a warm front

c) During a summer day with calm winds

d) In calm wind in cold weather

61. What is the percentage of oxygen in the atmosphere at 6000 ft?

a) 78 %

b) 12 %

c) 21 %

d) 18.9 %

62. The empty weight and the corresponding centre of gravity (CG) of an aircraft are initially determined...

a) By weighing

b) By calculation

c) For one aircraft of a type only, since all aircraft of the same type have the same mass and CG position

d) Through data provided by the aircraft manufacturer.

63. 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

64. The required data for a mass and balance calculation including masses and balance arms can be found in the...

a) Certificate of airworthiness

b) Mass and balance section of the pilot's operating handbook of this particular aircraft

c) Performance section of the pilot's operating handbook of this particular aircraft

d) Documentation of the annual inspection

65. What is the purpose of the signal square at an aerodrome?

a) It is an illuminated area on which search and rescue and fire fighting vehicles are placed

b) It contains special symbols to indicate the conditions at the aerodrome visually to over-flying aircraft

c) Aircraft taxi to this square to get light signals for taxi and take-off clearance

d) It is a specially marked area to pick up or drop towing objects

66. What is the primary purpose of an aircraft accident investigation?

a) To identify the reasons and work out safety recommendations

b) To clarify questions of liability within the meaning of compensation for passengers

c) To work for the public prosecutor and help to follow-up flight accidents

d) To determine the guilty party and draw legal consequences

67. What impression may be caused when approaching a runway with an upslope?

a) An undershoot

b) A landing beside the centreline

c) An overshoot

d) A hard landing

68. 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

69. 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.

70. 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

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Response Scheme

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

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