

Exam simulation

SPL - Sailplane Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

01. What is the required flight time for a distance of 236 NM with a ground speed of 134 kt?

- a) 1:34 h
- b) 0:34 h
- c) 0:46 h
- d) 1:46 h

02. Where can the type of restriction for a restricted airspace be found?

- a) AIC
- b) ICAO chart 1:500000
- c) AIP
- d) NOTAM

03. Which altitude is displayed on the altimeter when set to a specific QNH?

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

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

- a) 78 %
- b) 12 %
- c) 21 %
- d) 18.9 %

05. 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

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06. What describes "wing loading"?

- a) Wing area per weight
- b) Drag per weight
- c) Weight per wing area
- d) Drag per wing area

07. How can you obtain meteorological information concerning airports during a crosscountry flight?

- a) GAMET
- b) METAR
- c) AIRMET
- d) VOLMET

08. A risk factor for decompression sickness is...

- a) Sports
- b) 100 % oxygen after decompression
- c) Scuba diving prior to flight.
- d) Smoking

09. 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

10. 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

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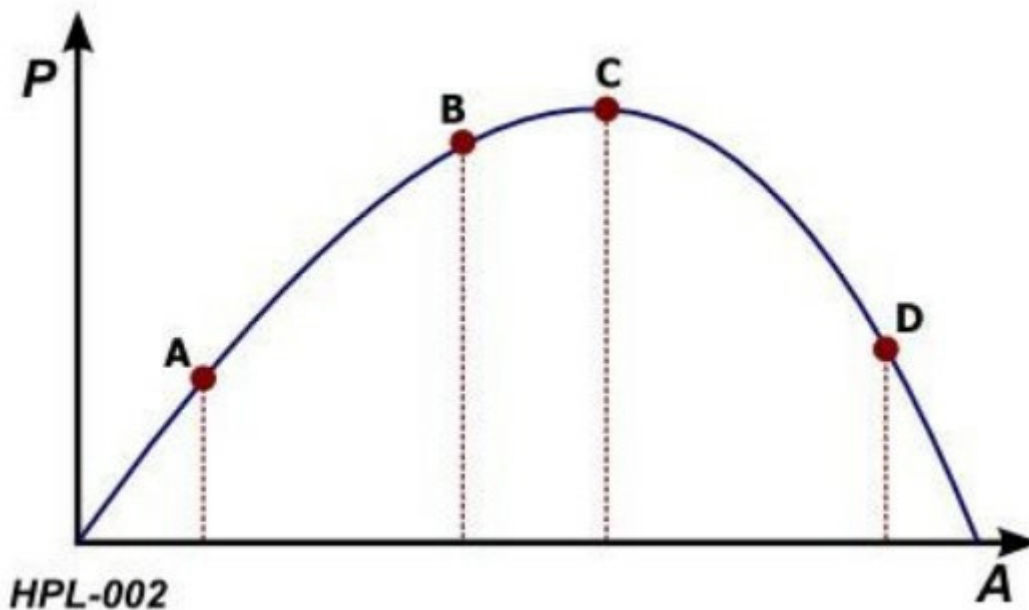
11. How does aircraft weight affect the critical angle of attack?

- a) Decreases with forward centre of gravity position
- b) Changes with increasing weight
- c) Is independent of the weight
- d) Increases with backward centre of gravity position

12. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL110?

- a) 1500 m
- b) 3000 m
- c) 8000 m
- d) 5000 m

13. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance A = Arousal / Stress



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

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

- a) Unlimited
- b) 12 years
- c) 6 months
- d) 12 months

15. Which altitude marks the lower limit where the body is unable to completely compensate the effects of the low atmospheric pressure?

- a) 5000 feet
- b) 22000 feet
- c) 12000 feet
- d) 7000 feet

16. 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

17. 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)

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18. Regarding the communication model, how can the use of the same code during radio communication be ensured?

- a) By the use of proper headsets
- b) By a particular frequency allocation
- c) By the use of radio phraseology
- d) By using radios certified for aviation use only

19. 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

20. What factor may affect the top of cumulus clouds?

- a) The spread
- b) Relative humidity
- c) The absolute humidity
- d) The presence of an inversion layer

21. The "swiss cheese model" can be used to explain the...

- a) State of readiness of a pilot
- b) Procedure for an emergency landing
- c) Optimal problem solution
- d) Error chain.

22. 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.



23. Which factor shortens landing distance?

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

24. An inversion is a layer ...

- a) With constant temperature with increasing height
- b) With increasing pressure with increasing height
- c) With increasing temperature with increasing height
- d) With decreasing temperature with increasing height

25. 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

26. 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

27. 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

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28. 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

29. 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

30. The distance from 'A' to 'B' measures 120 NM. At a distance of 55 NM from 'A' the pilot realizes a deviation of 7 NM to the right. What approximate course change must be made to reach 'B' directly?

- a) 6° left
- b) 14° left
- c) 8° left
- d) 15° left

31. Air traffic control service is conducted by which services?

- a) ALR (alerting service) SAR (search and rescue service) TWR (aerodrome control service)
- b) FIS (flight information service) AIS (aeronautical information service) AFS (aeronautical fixed telecommunication service)
- c) APP (approach control service) ACC (area control service) FIS (flight information service)
- d) TWR (aerodrome control service) APP (approach control service) ACC (area control service)

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

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



33. What is the meaning of the 1:60 rule?

- a) 6 NM lateral offset at 1° drift after 10 NM
- b) 1 NM lateral offset at 1° drift after 60 NM
- c) 10 NM lateral offset at 1° drift after 60 NM
- d) 60 NM lateral offset at 1° drift after 1 NM

34. An aeroplane has a heading of 090°. The distance which has to be flown is 90 NM. After 45 NM the aeroplane is 4.5 NM north of the planned flight path. What is the corrected heading to reach the arrival aerodrome directly?

- a) 18° to the right
- b) 9° to the right
- c) 6° to the right
- d) 12° to the right

35. The term "runway" is defined as a...

- a) Round area on an aerodrome prepared for the landing and take-off of aircraft
- b) Rectangular area on a land aerodrome prepared for the landing and take-off of helicopters
- c) Rectangular area on a land aerodrome prepared for the landing and take-off of aircraft
- d) Rectangular area on a land or water aerodrome prepared for the landing and take-off of aircraft

36. 1000 ft equal...

- a) 300 m
- b) 3000 m
- c) 30 km
- d) 30 m

37. 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



38. Which air traffic services can be expected within an FIR (flight information region)?

- a) FIS (flight information service) ALR (alerting service)
- b) ATC (air traffic control) FIS (flight information service)
- c) ATC (air traffic control) AIS (aeronautical information service)
- d) AIS (aeronautical information service) SAR (search and rescue)

39. 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

40. 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

41. 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

42. A construction made of frames and stringer with a supporting skin is called...

- a) Honeycomb structure
- b) Wood- or mixed construction
- c) Semi-monocoque construction
- d) Grid construction

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43. In straight and level flight with constant performance of the engine, the angle of attack at the wing is...

- a) Smaller than in a descent
- b) Greater than in a climb
- c) Greater than at take-off
- d) Smaller than in a climb

44. What effect is referred to as "adverse yaw"?

- a) Aileron operation results in a yaw to the desired side due to less drag at the down-deflected aileron
- b) Rudder operation results in a rolling moment to the opposite side due to more lift generated by the faster moving wing
- c) Aileron operation results in a yaw to the opposite side due to more drag at the up-deflected aileron
- d) Aileron operation results in a yaw to the opposite side due to more drag at the down-deflected aileron

45. The angle between compass north and magnetic north is called...

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

46. What type of cloud indicates thermal updrafts?

- a) Stratus
- b) Cirrus
- c) Cumulus
- d) Lenticularis

47. 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

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48. 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

49. Moderate to severe turbulence has to be expected...

- a) Below thick cloud layers on the windward side of a mountain range.
- b) Overhead unbroken cloud layers.
- c) On the lee side of a mountain range when rotor clouds are present.
- d) With the appearance of extended low stratus clouds (high fog).

50. The validity of a medical examination certificate class 2 for a 62 years old pilot is...

- a) 12 Months
- b) 48 Months
- c) 24 Months
- d) 60 Months

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

- a) Altimeter setting
- b) Traffic information
- c) Heading
- d) Taxi instructions

52. 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



53. What is the gas composition of "air"?

- a) Oxygen 78 % Water vapour 21 % Nitrogen 1 %
- b) Oxygen 21 % Nitrogen 78 % Noble gases / carbon dioxide 1 %
- c) Oxygen 21 % Water vapour 78 % Noble gases / carbon dioxide 1 %
- d) Nitrogen 21 % Oxygen 78 % Noble gases / carbon dioxide 1 %

54. 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

55. 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

56. 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

57. What is the meaning of the abbreviation "SERA"?

- a) Selective Radar Altimeter
- b) Standardized European Rules of the Air
- c) Standard European Routes of the Air
- d) Specialized Radar Approach

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58. 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

59. 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

60. During a flight, a flight plan can be filed at the...

- a) Search and Rescue Service (SAR)
- b) Flight Information Service (FIS)
- c) Next airport operator en-route
- d) Aeronautical Information Service (AIS)

61. Which of the following options states a correct position report?

- a) DEABC reaching "N"
- b) DEABC, "N", 2500 ft
- c) DEABC over "N" in FL 2500 ft
- d) DEABC over "N" at 35

62. In which situations should a pilot use blind transmissions?

- a) When a pilot has flown into cloud or fog unintentionally and therefore would like to request navigational assistance from a ground unit
- b) When the traffic situation at an airport allows the transmission of information which does not need to be acknowledged by the ground station
- c) When no radio communication can be established with the appropriate aeronautical station, but when evidence exists that transmissions are received at that ground unit
- d) When a transmission containing important navigational or technical information is to be sent to several stations at the same time

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63. With decreasing air density the airflow speed increases at stall speed (TAS) and vice versa. How has a final approach to be conducted on a hot summer day?

- a) With increased speed indication (IAS)
- b) With unchanged speed indication (IAS)
- c) With decreased speed indication (IAS)
- d) With additional speed according POH

64. What information can be found in the ATIS, but not in a METAR?

- a) Operational information such as runway in use and transition level
- b) Information about current weather, for example types of precipitation
- c) Approach information, such as ground visibility and cloud base
- d) Information about mean wind speeds, maximum speeds in gusts if applicable

65. When landing with tailwind, the pilot has to...

- a) Approach with normal speed and shallow angle
- b) Compensate tailwind by sideslip
- c) Increase approach speed
- d) Land with gear retracted to shorten ground roll distance

66. On approach, wind shear suddenly decreases the tailwind. Without pilot correction, what is the immediate effect?

- a) The approach path becomes lower and IAS decreases.
- b) The approach path becomes lower and IAS increases.
- c) The approach path becomes higher and IAS increases.
- d) The approach path remains unchanged and only groundspeed changes.

67. 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

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68. 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

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. Which transponder code should be set during a radio failure without any request?

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

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Response Scheme

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

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