

Exam simulation

SPL - Sailplane Pilot License - Flight Performance and Planning



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STUDENT NAME:

DATE AND TIME:

01. 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

02. When commencing a steep turn, what has to be considered by the pilot?

- a) After achieving bank angle, reduce yaw using opposite rudder
- b) Commence turn with reduced speed according to aimed bank angle
- c) Commence turn with increased speed according to aimed bank angle
- d) After achieving bank angle, push the elevator to increase speed

03. How are two parallel runways designated?

- a) The left runway gets the suffix "L", the right runway remains unchanged
- b) The left runway gets the suffix "L", the right runway "R"
- c) The left runway remains unchanged, the right runway designator is increased by 1
- d) The left runway gets the suffix "-1", the right runway "-2"

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

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

05. 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)

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06. With regard to thunderstorms, strong up- and downdrafts appear during the...

- a) Mature stage
- b) Dissipating stage
- c) Initial stage
- d) Thunderstorm stage

07. The saturated adiabatic lapse rate is...

- a) Equal to the dry adiabatic lapse rate.
- b) Higher than the dry adiabatic lapse rate.
- c) Proportional to the dry adiabatic lapse rate.
- d) Lower than the dry adiabatic lapse rate.

08. The Caution Area is marked on an airspeed indicator by what color?

- a) Red
- b) Green
- c) White
- d) Yellow

09. 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

10. 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.

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11. The shortest distance between two points on Earth is represented by a part of...

- a) A rhumb line
- b) A small circle
- c) A parallel of latitude
- d) A great circle

12. The right aileron deflects upwards, the left downwards. How does the aircraft react?

- a) Rolling to the left, no yawing
- b) Rolling to the right, yawing to the left
- c) Rolling to the left, yawing to the right
- d) Rolling to the right, yawing to the right

13. Regularity messages are messages...

- a) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance
- b) Sent by an aircraft operating agency or an aircraft of immediate concern to an aircraft in flight
- c) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight
- d) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation

14. The elevator moves an aeroplane around the...

- a) Vertical axis
- b) Longitudinal axis
- c) Elevator axis
- d) Lateral axis

15. Where are the two polar circles?

- a) 23.5° north and south of the poles
- b) 23.5° north and south of the equator
- c) At a latitude of 20.5°S and 20.5°N
- d) 20.5° south of the poles

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16. 1000 ft equal...

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

17. During slope soaring you have the hill to your left side, another glider is approaching from the opposite side at the same altitude. How do you react?

- a) You divert to the right
- b) You expect the opposite glider to divert
- c) You divert to the right and expect the opposite glider to do the same
- d) You pull on the elevator and divert upward

18. 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

19. 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

20. What is the percentage of nitrogen in the atmosphere?

- a) 21 %
- b) 78 %
- c) 0.1 %
- d) 1 %

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21. 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

22. During initial winch launch, one wing of a glider plane gets ground contact. What action should be taken by the glider pilot?

- a) Pull the elevator
- b) Decouple cable immediately
- c) Rudder in opposite direction
- d) Ailerons in opposite direction

23. A flight level is a...

- a) True altitude
- b) Altitude above ground
- c) Density altitude
- d) Pressure altitude

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. 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

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26. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 030° to a heading of 180°. At approximately which indicated magnetic heading should the turn be terminated?

- a) 150°
- b) 180°
- c) 360°
- d) 210°

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

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

28. What is an indication for a macho attitude?

- a) Risky flight maneuvers to impress spectators on ground
- b) Comprehensive risk assessment when faced with unfamiliar situations
- c) Quick resignation in complex and critical situations
- d) Careful walkaround procedure

29. 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

30. Which design feature can compensate for adverse yaw?

- a) Wing dihedral
- b) Full deflection of the aileron
- c) Aileron trim
- d) Differential aileron deflection

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31. 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

32. 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

33. What information is NOT found on Low-Level Significant Weather Charts (LLSWC)?

- a) Information about icing conditions
- b) Front lines and frontal displacements
- c) Radar echos of precipitation
- d) Information about turbulence areas

34. What is the call sign of the flight information service?

- a) Flight information
- b) Info
- c) Advice
- d) Information

35. 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

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36. The "spread" is defined as...

- a) Difference between actual temperature and dew point.
- b) Difference between dew point and condensation point.
- c) Relation of actual to maximum possible humidity of air
- d) Maximum amount of water vapour that can be contained in air.

37. The Pitot / static system is required to...

- a) Prevent potential static buildup on the aircraft
- b) Measure total and static air pressure
- c) Prevent icing of the Pitot tube
- d) Correct the reading of the airspeed indicator to zero when the aircraft is static on the ground

38. In which situation is radio mandatory zone (RMZ) entry allowed without establishing radio contact?

- a) There are other aircraft in the aerodrome circuit
- b) It is the aerodrome of departure
- c) It is the destination aerodrome
- d) Approval has been granted before

39. Which answer states a risk factor for diabetes?

- a) Sleep deficiency
- b) Overweight
- c) Smoking
- d) Alcohol consumption

40. In what cases is visibility transmitted in kilometers?

- a) Greater than 10 km
- b) Up to 5 km
- c) Greater than 5 km
- d) Up to 10 km

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41. 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

42. 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

43. 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

44. 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

45. Temperatures will be given by meteorological aviation services in Europe in which unit?

- a) Gpdam
- b) Kelvin
- c) Degrees Centigrade ($^\circ$ C)
- d) Degrees Fahrenheit

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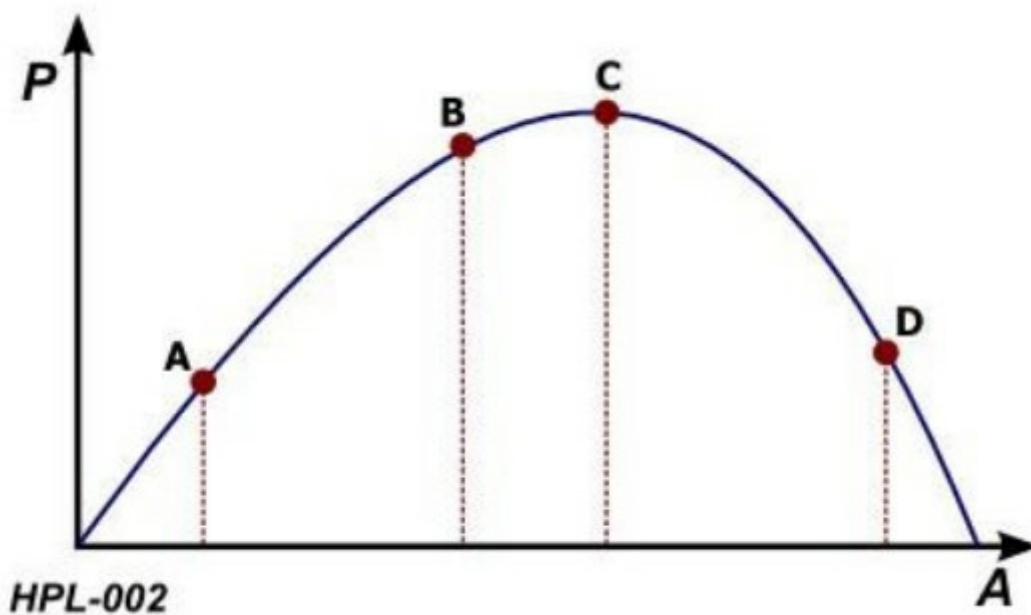
46. With Central European Time (CET) given as UTC+1, what UTC time corresponds to 1700 CET?

- a) 1500 UTC
- b) 1700 UTC
- c) 1800 UTC
- d) 1600 UTC

47. 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

48. 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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49. 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

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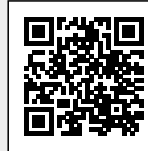
50. What is the distance from Neustadt (EDAN) (53°22'N, 011°37'E) to Uelzen (EDVU) (52°59'N, 10°28'E)?



- a) 46 km
- b) 46 NM
- c) 78 km
- d) 78 nm

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51. 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

52. Wings level after a longer period of turning can lead to the impression of...

- a) Starting a climb
- b) Steady turning in the same direction as before
- c) Turning into the opposite direction.
- d) Starting a descent

53. 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

54. 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

55. 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

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56. During airtow, in a turn the glider plane gets into an outward off-set position. What action should be taken by the glider pilot?

- a) Return glider plane to a position behind towing plane by a smaller curve radius using strong inputs on rudder pedals
- b) Take up same bank angle as towing plane and return glider plane to a position behind towing plane using rudder pedals
- c) Bring back glider plane to intended turning attitude using rudder and ailerons, extend spoiler flaps to reduce speed
- d) Initiate sideslip and let glider plane be pushed back to a position behind towing plane by increased drag

57. What weather is likely to be experienced during "Foehn" in the Bavarian area close to the alps?

- a) Cold, humid downhill wind on the lee side of the alps, flat pressure pattern
- b) Nimbostratus cloud in the southern alps, rotor clouds at the lee side, warm and dry wind
- c) High pressure area overhead Biscay and low pressure area in Eastern Europe
- d) Nimbostratus cloud in the northern alps, rotor clouds at the windward side, warm and dry wind

58. Of what shape is a landing direction indicator?

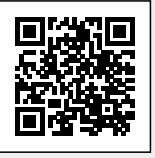
- a) T
- b) A straight arrow
- c) L
- d) An angled arrow

59. 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

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60. The term "tropopause" is defined as...

- a) The layer above the troposphere showing an increasing temperature.
- b) The height above which the temperature starts to decrease.
- c) The boundary area between the troposphere and the stratosphere.
- d) The boundary area between the mesosphere and the stratosphere.

61. 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.

62. During a stall, the lift...

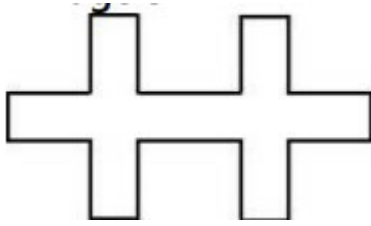
- a) Decreases and drag increases
- b) Increases and drag increases
- c) Decreases and drag decreases
- d) Increases and drag decreases

63. What has to be considered when overflying mountain ridges?

- a) Turbulence, reduce to minimum speed
- b) Do not overfly national parks
- c) Turbulence, therefore slightly increase speed
- d) Use circling birds to find thermal cells



64. 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

65. 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)

66. What is an appropriate reaction when a passenger during cruise flight suddenly feels uncomfortable?

- a) Avoid conversation and choose a higher airspeed
- b) Adjust cabin temperature and prevent excessive bank
- c) Switch on the heater blower and provide thermal blankets
- d) Give additional oxygen and avoid low load factors

67. "Longitudinal stability" is referred to as stability around which axis?

- a) Lateral axis
- b) Propeller axis
- c) Longitudinal axis
- d) Vertical axis

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68. What values are usually marked with a red line on instrument displays?

- a) Operational limits
- b) Caution areas
- c) Operational areas
- d) Recommended areas

69. What visual flight conditions can be expected after the passage of a cold front?

- a) Good visibility, formation of cumulus clouds with showers of rain or snow
- b) Poor visibility, formation of overcast or ground-covering stratus clouds, snow
- c) Scattered cloud layers, visibility more than 5 km, formation of shallow cumulus clouds
- d) Medium visibility with lowering cloud bases, onset of prolonged precipitation

70. Which phrase is to be repeated three times before transmitting an urgency message?

- a) Mayday
- b) Urgent
- c) Pan Pan
- d) Help

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Response Scheme

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

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