

# Exam simulation

SPL - Sailplane Pilot License - Air Law



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STUDENT NAME:

DATE AND TIME:

**01. During a right turn, the yaw string is drawn to the left from center position. By what rudder input can the string be centered again?**

- a) Less bank, less rudder in turn direction
- b) Less bank, more rudder in turn direction
- c) More bank, less rudder in turn direction
- d) More bank, more rudder in turn direction

**02. Which abbreviation is used for the term "abeam"?**

- a) ABB
- b) ABM
- c) ABE
- d) ABA

**03. 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.

**04. 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

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## 05. 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...

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## 06. 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

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## 07. Pressure compensation on an wing occurs at the...

- a) Wing tips.
- b) Leading edge.
- c) Trailing edge.
- d) Wing roots

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## 08. What pressure pattern can be observed during the passage of a polar front low?

- a) Rising pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- b) Rising pressure in front of the warm front, rising pressure within the warm sector, falling pressure behind the cold front
- c) Falling pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- d) Falling pressure in front of the warm front, constant pressure within the warm sector, falling pressure behind the cold front

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## 09. A pilot can contact FIS (flight information service)...

- a) By a personal visit.
- b) Via telephone.
- c) Via radio communication.
- d) Via internet.

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## 10. 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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## 11. The term 'agonic line' is defined as a line on Earth or an aeronautical chart, connecting all points with the...

- a) Heading of 0°.
- b) Deviation of 0°.
- c) Inclination of 0°.
- d) Variation of 0°.

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## 12. The term "center of gravity" is defined as...

- a) Another designation for the neutral point.
- b) The heaviest point on an aeroplane.
- c) Half the distance between the neutral point and the datum line.
- d) Half the distance between the neutral point and the datum line.

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## 13. What cloud type can typically be observed across widespread high pressure areas during summer?

- a) Overcast low stratus
- b) Scattered Cu clouds
- c) Overcast Ns clouds
- d) Squall lines and thunderstorms

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## 14. The term "balance arm" in the context of a mass and balance calculation defines the...

- a) Distance of a mass from the center of gravity
- b) Point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- c) Distance from the datum to the center of gravity of a mass.
- d) Point through which the force of gravity is said to act on a mass.

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

- a) Lower density
- b) Decreasing weight
- c) Lower altitude
- d) Higher load factor

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## 16. 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.

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## 17. Which point on the aerofoil is represented by number 1? See figure (PFA-009) Siehe Anlage 2

- a) Center of pressure
- b) Stagnation point
- c) Stagnation point
- d) Transition point

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## 18. Which levers in a glider's cockpit are indicated by the colors 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

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## 19. 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

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**20. 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°.

**21. 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 %

**22. 5500 m equal...**

- a) 18000 ft.
- b) 30000 ft.
- c) 7500 ft.
- d) 10000 ft.

**23. What is the difference in latitude between A (12°53'30"N) and B (07°34'30"S)?**

- a) .05,19°
- b) .20,28°
- c) .05°19'00"
- d) .20°28'00"

**24. 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

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25. Which answer completes the flight plan (marked cells)? See annex (NAV-014) (3,00 P.) Siehe Anlage 3

P6	P7		P8	P9	P9	P9	P10
<b>NAV-014</b>							
VE	Wind W/V		rwk	L	rwSK	MW	mwSK
TAS	Richtung	Geschw.	TC	WCA	TH	VAR	MH
75	320	15	247	+11	258	1	257
95	320	15	152	+2	154	1	153
95	320	15	139	0	139	1	138
95	320	15	161	+3	164	1	163
95	320	15	179	+6		1	

- a) TH: 185°. MH: 184°. MC: 178°.
- b) TH: 173°. MH: 184°. MC: 178°.
- c) TH: 173°. MH: 174°. MC: 178°.
- d) TH: 185°. MH: 185°. MC: 180°.

26. 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°.

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## 27. What pressure pattern can be observed at a lift-generating wing profile at positive angle of attack?

- a) Low pressure is created above, higher pressure below the profile
- b) Pressure above remains unchanged, higher pressure is created below the profile
- c) High pressure is created above, lower pressure below the profile
- d) Pressure below remains unchanged, lower pressure is created above the profile

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## 28. 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

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## 29. 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

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## 30. The trim tab at the elevator is deflected upwards. In which position is the corresponding indicator?

- a) Neutral position
- b) Nose-down position
- c) Nose-up position
- d) Laterally trimmed

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## 31. 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.

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## 32. 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

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## 33. When flying into heavy snowfall, most dangerous will be the...

- a) Sudden blockage of pitot-static system
- b) Sudden increase of airframe icing.
- c) Sudden increase in airplane mass
- d) Sudden loss of visibility

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## 34. During approach, tower provides the following information: "Wind 15 knots, gusts 25 knots". How should the landing be performed?

- a) Approach with minimum speed, correct changes in attitude with careful rudder inputs
- b) Approach with normal speed, maintain speed using spoiler flaps
- c) Approach with increased speed, correct changes in attitude with firm rudder inputs
- d) Approach with increased speed, avoid usage of spoiler flaps

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## 35. The dry adiabatic lapse rate has a value of...

- a) 0,65° C / 100 m.
- b) 1,0° C / 100 m.
- c) 2° / 1000 ft.
- d) 0,6° C / 100 m.

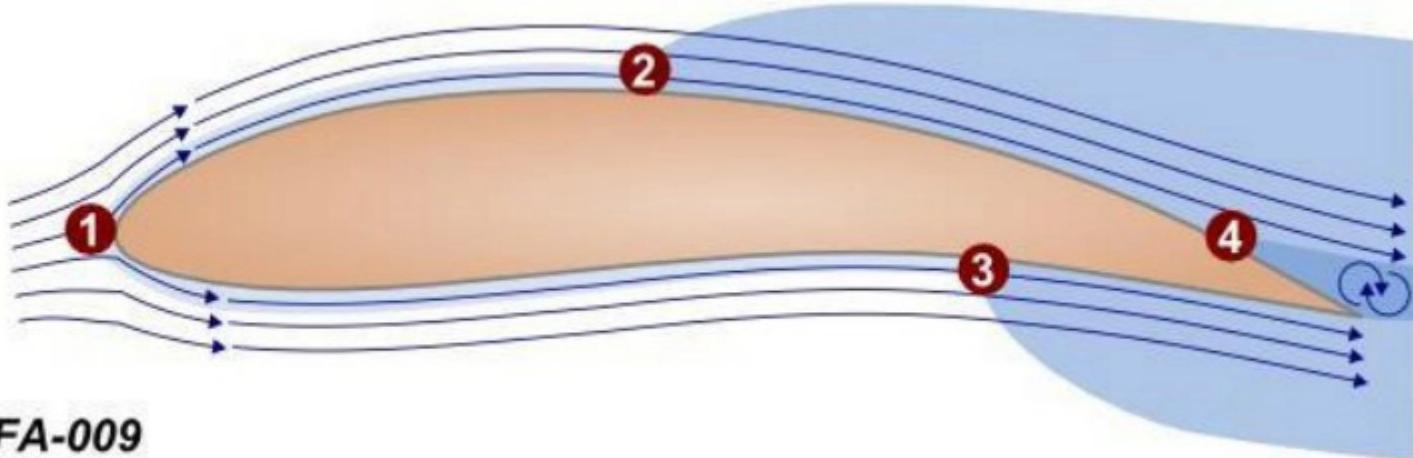
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**36. Which point on the aerofoil is represented by number 3? See figure (PFA-009) Siehe Anlage 2**



**PFA-009**

- a) Stagnation point
- b) Separation point
- c) Center of pressure
- d) Transition point

**37. Which section of the flight manual describes the basic empty mass of an aircraft?**

- a) Limitations
- b) Normal procedures
- c) Weight and balance
- d) Performance

**38. With Central European Summer Time (CEST) given as UTC+2, what UTC time corresponds to 1600 CEST?**

- a) 1600 UTC.
- b) 1700 UTC.
- c) 1500 UTC.
- d) 1400 UTC.

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## 39. 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

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## 40. The critical angle of attack...

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

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

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

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## 42. What is the effect of pulling the control yoke or stick backwards?

- a) The aircraft's tail will produce an decreased upward force, causing the aircraft's nose to drop
- b) The aircraft's tail will produce an increased upward force, causing the aircraft's nose to rise
- c) The aircraft's tail will produce an increased downward force, causing the aircraft's nose to drop
- d) The aircraft's tail will produce an increased downward force, causing the aircraft's nose to rise

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## 43. What is the meaning of the abbreviation "TRA"?

- a) Transponder Area
- b) Temporary Reserved Airspace
- c) Terminal Area
- d) Temporary Radar Routing Area

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**44. Which abbreviation is used for the term "obstacle"?**

- a) OBST
- b) OBTC
- c) OST
- d) OBS

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**45. What color has the emergency hood release handle?**

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

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**46. 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

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**47. 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

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**48. The distance between the center of gravity and the datum is called...**

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

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**49. After getting around a turning point, what should a glider pilot be prepared for? (2,00 P.)**

- 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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**50. 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

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**51. 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 %

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**52. The altimeter's reference scale is set to airfield pressure (QFE). What indication is shown during the flight?**

- a) Altitude above MSL
- b) Height above airfield
- c) Airfield elevation
- d) Pressure altitude

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**53. 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.

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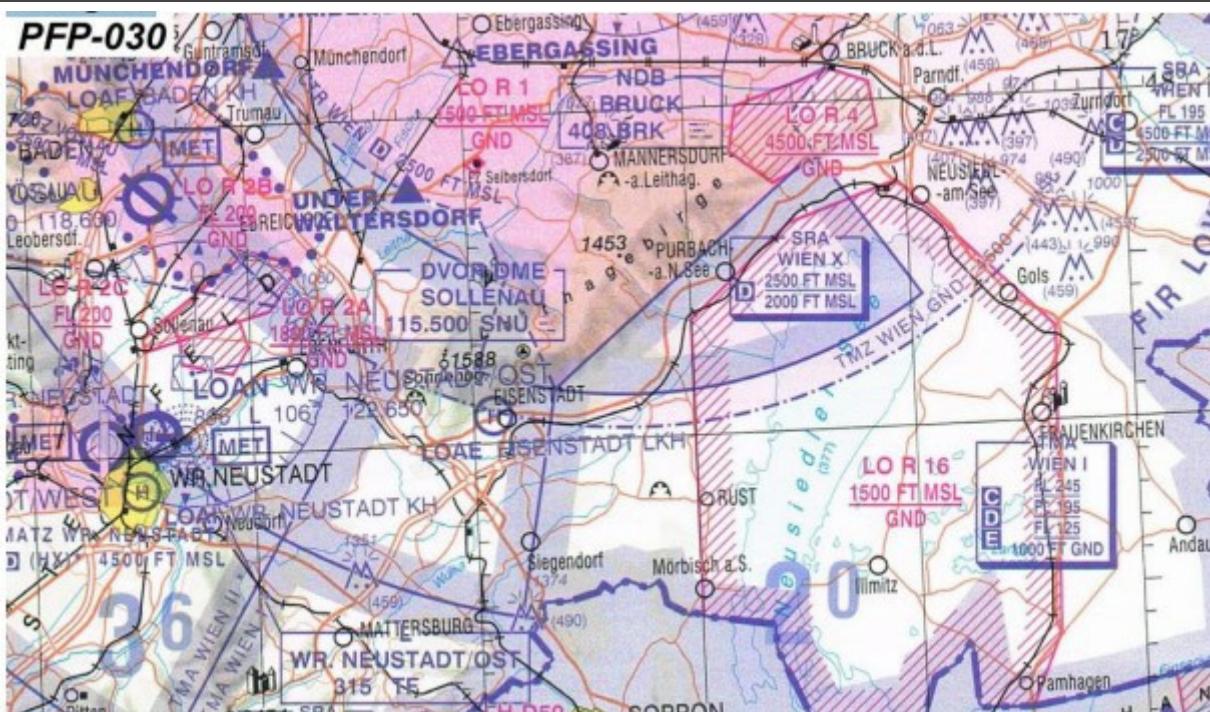


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54. What is the mass of a "cube of air" with the edges 1 m long, at MSL according ISA?

- a) 0,01225 kg
- b) 0,1225 kg
- c) 12,25 kg
- d) 1,225 kg

55. The upper limit of LO R 4 equals... See annex (PFP-030) Siehe Anlage 2



- a) 1.500 ft AGL
- b) 4.500 ft AGL.
- c) 4.500 ft MSL
- d) 1.500 ft MSL.

56. 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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**57. Which transponder code indicates a radio failure?**

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

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

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

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**59. Which answer contains every state of water found in the atmosphere?**

- a) Liquid, solid, and gaseous
- b) Liquid
- c) Gaseous and liquid
- d) Liquid and solid

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**60. During flight you have to solve a problem, how to you proceed?**

- a) There is no time for solving problems during flight
- b) Solve problem immediately, otherwise refer to the operationg handbook
- c) Contact other pilot via radio for help, keep flying
- d) Primarily fly the airplane and keep it stable, then attend to the problem and keep flying the airplane

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**61. 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

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## 62. 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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## 63. What is the function of the blood platelets (thrombocytes)?

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

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## 64. 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.

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## 65. 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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## 66. 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

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**67. 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

**68. 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

**69. 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

**70. After landing, you realize you lost your pen which might have fallen down in the cockpit of the sailplane. What has to be considered?**

- a) Lighter, loose bodies in the fuselage can be considered uncritical
- b) Before next take-off, the cockpit has to be firmly inspected for loose bodies.
- c) A flight without a pen at hand is not permitted
- d) Succeeding pilots have to be informed about that

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## Response Scheme

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

01: **B**

02: **B**

03: **B**

04: **D**

05: **D**

06: **A**

07: **A**

08: **C**

09: **C**

10: **B**

11: **D**

12: **D**

13: **B**

14: **C**

15: **B**

16: **B**

17: **B**

18: **D**

19: **D**

20: **D**

21: **B**

22: **A**

23: **D**

24: **C**

25: **A**

26: **B**

27: **A**

28: **B**

29: **D**

30: **B**

31: **C**

32: **B**

33: **D**

34: **C**

35: **B**

36: **D**

37: **C**

38: **D**

39: **A**

40: **C**

41: **A**

42: **D**

43: **B**

44: **A**

45: **B**

46: **A**

47: **D**

48: **D**

49: **D**

50: **A**

51: **B**

52: **B**

53: **D**

54: **D**

55: **C**

56: **D**

57: **D**

58: **D**

59: **A**

60: **D**

61: **C**

62: **B**

63: **D**

64: **A**

65: **C**

66: **B**

67: **C**

68: **B**

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: \_\_\_\_\_

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39: \_\_\_\_\_

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