

Exam simulation

SPL - Sailplane Pilot License - Aircraft General Knowledge



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STUDENT NAME:

DATE AND TIME:

01. Which weather chart shows the actual air pressure as in MSL along with pressure centers and fronts?

- a) Wind chart
- b) Surface weather chart
- c) Prognostic chart
- d) Hypsometric chart

02. 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.

03. 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

04. Stability around which axis is mainly influenced by the center of gravity's longitudinal position?

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

05. In what case is the pilot allowed to abbreviate the call sign of his aircraft?

- a) After passing the first reporting point
- b) If there is little traffic in the traffic circuit
- c) Within controlled airspace
- d) After the ground station has used the abbreviation

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06. 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.

07. The center of pressure is the theoretical point of origin of...

- a) Only the resulting total drag.
- b) Gravity forces of the profile.
- c) All aerodynamic forces of the profile.
- d) Gravity and aerodynamic forces.

08. How can a wind direction indicator be marked for better visibility?

- a) The wind direction indicator may be mounted on top of the control tower.
- b) The wind direction indicator could be made from green materials.
- c) The wind direction indicator could be surrounded by a white circle.
- d) The wind direction indicator could be located on a big black surface.

09. Which pressure is sensed by the Pitot tube?

- a) Dynamic air pressure
- b) Cabin air pressure
- c) Total air pressure
- d) Static air pressure

10. Where does the inclination reach its lowest value?

- a) At the geographic equator
- b) At the magnetic equator
- c) At the geographic poles
- d) At the magnetic poles

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11. 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)

12. 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

13. The center 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.

14. Wake turbulence on or near the runway

- a) Plowed field
- b) Glade with long dry grass
- c) Sports area in a village
- d) Harvested cornfield

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15. 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
NAV-014			rwk	L	rwSK	MW	mwSK
VE	Wind W/V		TC	WCA	TH	VAR	MH
TAS	Richtung	Geschw.					
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	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°.

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

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

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17. What does a readability of 1 indicate?

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

18. How are the flight controls on a small single-engine piston aircraft normally controlled and actuated?

- a) Manually through rods and control cables
- b) Hydraulically through hydraulic pumps and actuators
- c) Electrically through fly-by-wire
- d) Power-assisted through hydraulic pumps or electric motors

19. 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

20. 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.

21. 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

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22. 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.

23. The flight has to be continued according to the last clearance complying with VFR flight rules or the airspace has to be left using a standard routing

- 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

24. The term 'isogonal' or 'isogonic line' is defined as a line on an aeronautical chart, connecting all points with the same value of...

- a) Heading.
- b) Deviation
- c) Variation.
- d) Inclination.

25. Collisions during circling within thermal updrafts can be avoided by...

- a) Alternate circling with opposite directions in different heights.
- b) Imitating the movements of the preceding gliding plane.
- c) Coordination of plane movements with other aircrafts circling within the same updraft
- d) Fast approach into the updraft and rapidly pulling the elevator for slower speed.

26. Which weather phenomenon is typically associated with wind shear?

- a) Fog
- b) Stable high pressure areas.
- c) Inernal warm front.
- d) Thunderstorms.

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27. 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

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

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

29. 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.

30. Times are transmitted as...

- a) Local time.
- b) Time zone time.
- c) UTC.
- d) Standard time.

31. What is the correct designation of the frequency band from 118.000 to 136.975 MHz used for voice communication?

- a) MF
- b) LF
- c) HF
- d) VHF

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32. During airtow, the gliding plane 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

33. Given: True course: 270°. TAS: 100 kt. Wind: 090°/25 kt. Distance: 100 NM. The ground speed (GS) equals...

- a) 120 kt.
- b) 131 kt.
- c) 117 kt.
- d) 125 kt.

34. What describes "wing loading"?

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

35. UTC is...

- a) A zonal time
- b) Local mean time at a specific point on Earth.
- c) An obligatory time used in aviation.
- d) A local time in Central Europe.

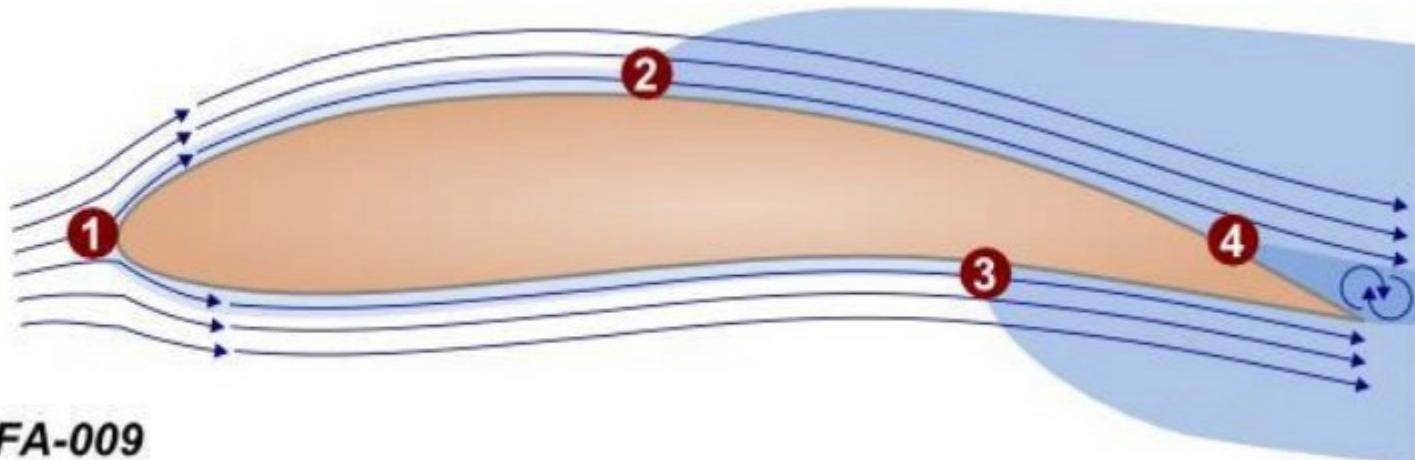
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36. Which point on the aerofoil is represented by number 3? See figure (PFA-009) Siehe Anlage 2



PFA-009

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

37. The center of gravity (CG) defines...

- a) The product of mass and balance arm
- b) The point on the longitudinal axis or its extension from which the centers of gravity of all masses are referenced.
- c) The point on the longitudinal axis or its extension from which the centers of gravity of all masses are referenced.
- d) The point through which the force of gravity is said to act on a mass.

38. The correct transponder code for emergencies is...

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

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39. In case of cable break during airtow, a longer part of the cable remains attached to the glider plane. What action should be taken by the glider pilot?

- a) Decouple immediately and proceed with coupling unlatched
- b) Conduct normal approach, release cable immediately after ground contact
- c) Perform low approach and request information about cable length by airfield controller, decouple if necessary
- d) When in safe height, drop cable overhead empty terrain or overhead airfield

40. The term "beginning of thermals" refers to the moment when thermal intensity...

- a) Becomes usable for cross-country gliding by formation of Cu clouds.
- b) Becomes usable for gliding and reaches up to 1200 m MSL.
- c) Reaches up to 600 m AGL and forms Cumulus clouds.
- d) Becomes usable for gliding and reaches up to 600 m AGL.

41. 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.

42. What factors are required for the formation of precipitation in clouds?

- a) The presence of an inversion layer
- b) Moderate to strong updrafts
- c) Calm winds and intensive sunlight insolation
- d) High humidity and high temperatures

43. In which situation is it NOT possible to achieve a pressure compensation between the middle ear and the environment?

- a) During a light and slow climb
- b) Breathing takes place using the mouth only
- c) All windows are completely closed
- d) The eustachian tube is blocked

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44. Which transponder code indicates a radio failure?

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

45. What process causes latent heat being released into the upper troposphere?

- a) Cloud forming due to condensation
- b) Descending air across widespread areas
- c) Evaporation over widespread water areas
- d) Stabilisation of inflowing air masses

46. 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

47. Being intercepted by a military aircraft at daytime, what is the meaning of the following signal: A sudden heading change of 90 degrees or more and a pull-up of the aircraft without crossing the track of the intercepted aircraft?

- a) Follow me, i will bring you to the next suitable airfield
- b) You may continue your flight
- c) Prepare for a safety landing, you have entered a prohibited area
- d) You are entering a restricted area, leave the airspace immediately

48. When air masses meet each other head on, how is this referred to and what air movements will follow?

- a) Convergence resulting in air being lifted
- b) Divergence resulting in air being lifted
- c) Divergence resulting in sinking air
- d) Divergence resulting in sinking air

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49. The term "moment" with regard to a mass and balance calculation is referred to as...

- a) Sum of a mass and a balance arm.
- b) Difference of a mass and a balance arm.
- c) Quotient of a mass and a balance arm.
- d) Product of a mass and a balance arm.

50. The vertical speed indicator measures the difference of pressure between...

- a) The present dynamic pressure and the dynamic pressure of a previous moment.
- b) The present total pressure and the total pressure of a previous moment.
- c) The present dynamic pressure and the static pressure of a previous moment
- d) The present static pressure and the static pressure of a previous moment.

51. A vertical speed indicator measures the difference between...

- a) Total pressure and static pressure.
- b) Dynamic pressure and total pressure.
- c) Instantaneous static pressure and previous static pressure.
- d) Instantaneous total pressure and previous total pressure.

52. 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

53. The indication of a magnetic compass deviates from magnetic north direction due to what errors?

- a) Inclination and declination of the earth's magnetic field
- b) Gravity and magnetism
- c) Deviation, turning and acceleration errors
- d) Variation, turning and acceleration errors

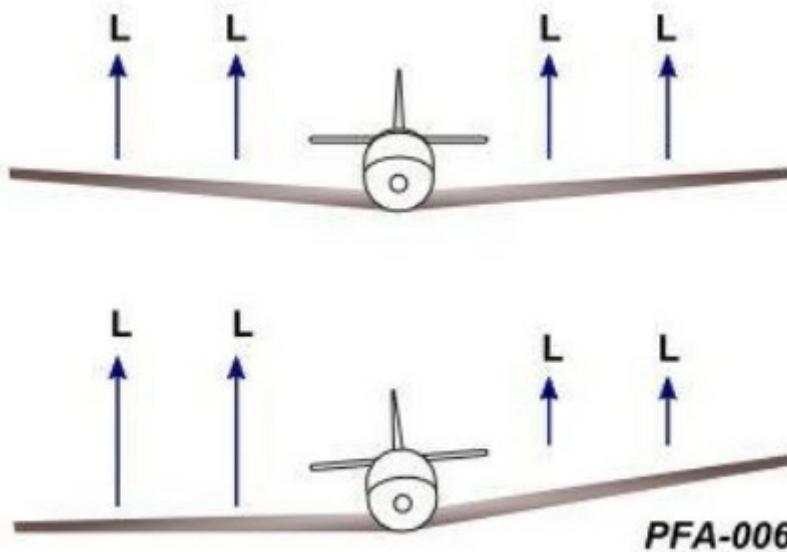
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54. Which constructive feature is shown in the figure? See figure (PFA-006) L: Lift Siehe Anlage 4



- a) Lateral stability by wing dihedral
- b) Differential aileron deflection
- c) Directional stability by lift generation
- d) Longitudinal stability by wing dihedral

55. Bernoulli's equation for frictionless, incompressible gases states that...

- a) Total pressure = dynamic pressure - static pressure.
- b) Total pressure = dynamic pressure + static pressure.
- c) Static pressure = total pressure + dynamic pressure
- d) Dynamic pressure = total pressure + static pressure.

56. In which way may an altimeter subscale which is set to an incorrect QNH lead to an incorrect altimeter reading?

- a) If the subscale is set to a higher than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- b) If the subscale is set to a lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended
- c) If the subscale is set to a higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended
- d) If the subscale is set to a lower than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended

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

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

58. What information can be obtained from satellite images?

- a) Overview of cloud covers and front lines
- b) Turbulence and icing
- c) Temperature and dew point of environmental air
- d) Flight visibility, ground visibility, and ground contact

59. 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

60. What ground features should preferably be used for orientation during visual flight?

- a) Power lines
- b) Farm tracks and creeks
- c) Border lines
- d) Rivers, railroads, highways

61. An aircraft is flying at aFL 75 with an outside air temperature (OAT) of -9°C. The QNH altitude is 6500 ft. The true altitude equals...

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

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

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

63. 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.

64. Which option states a benefit of wing washout?

- a) With the washout the form drag reduces at high speeds
- b) Greater hardness because the wing can withstand more torsion forces
- c) At high angles of attack the effectiveness of the aileron is retained as long as possible
- d) Structurally the wing is made more rigid against rotation

65. The term 'True Course' (TC) is defined as...

- a) The direction from an arbitrary point on Earth to the magnetic north pole.
- b) The direction from an arbitrary point on Earth to the geographic North Pole.
- c) The angle between magnetic north and the course line.
- d) The angle between true north and the course line.

66. What has to be considered when operating a sailplane with water ballast?

- a) Best glide angle decreases.
- b) Significant CG shifts.
- c) Best glide speed decreases
- d) It should stay below freezing level.

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67. What can be expected for the prevailing wind with isobars on a surface weather chart showing large distances?

- a) Low pressure gradients resulting in low prevailing wind
- b) Strong pressure gradients resulting in low prevailing wind
- c) Strong pressure gradients resulting in strong prevailing wind
- d) Low pressure gradients resulting in strong prevailing wind

68. All aerodynamic forces can be considered to act on a single point. This point is called...

- a) Center of gravity.
- b) Lift point.
- c) Transition point.
- d) Center of pressure.

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69. What is the distance from VOR Brünkendorf (BKD) (53°02'N, 011°33'E) to Pritzwalk (EDBU) (53°11'N, 12°11'E)?
See annex (NAV-031) Siehe Anlage 2



- a) 24 NM
- b) 42 NM
- c) 24 km
- d) 42 km

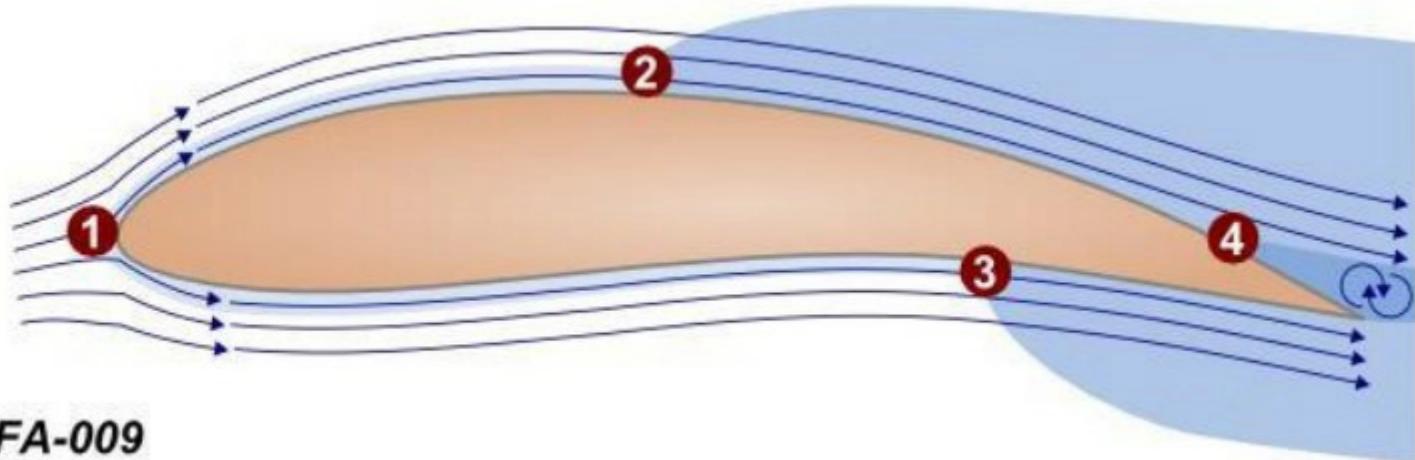
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70. Which point on the aerofoil is represented by number 4? See figure (PFA-009) Siehe Anlage 2



PFA-009

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

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Response Scheme

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

01: **B**

02: **A**

03: **B**

04: **B**

05: **D**

06: **C**

07: **C**

08: **C**

09: **C**

10: **B**

11: **A**

12: **B**

13: **D**

14: **D**

15: **A**

16: **C**

17: **D**

18: **A**

19: **A**

20: **D**

21: **A**

22: **B**

23: **D**

24: **C**

25: **C**

26: **D**

27: **D**

28: **D**

29: **B**

30: **C**

31: **D**

32: **D**

33: **D**

34: **C**

35: **C**

36: **D**

37: **D**

38: **C**

39: **D**

40: **D**

41: **C**

42: **B**

43: **D**

44: **D**

45: **A**

46: **C**

47: **B**

48: **A**

49: **D**

50: **D**

51: **C**

52: **D**

53: **C**

54: **A**

55: **B**

56: **A**

57: **C**

58: **A**

59: **D**

60: **D**

61: **A**

62: **A**

63: **D**

64: **C**

65: **D**

66: **D**

67: **A**

68: **D**

69: **A**

70: **D**

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Response form

Use this form to mark your answers

01: _____

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