Exam simulation

SPL - Sailplane Pilot Licence - Navigation

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STUDENT NAME:	DATE AND TIME:

01. 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

02. Which effect does a decreasing airspeed have on the induced drag during a horizontal and stable cruise flight?

a) The induced drag will slightly decrease
b) The induced drag will collapse
c) The induced drag will increase
d) The induced drag will remain constant

03. 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.

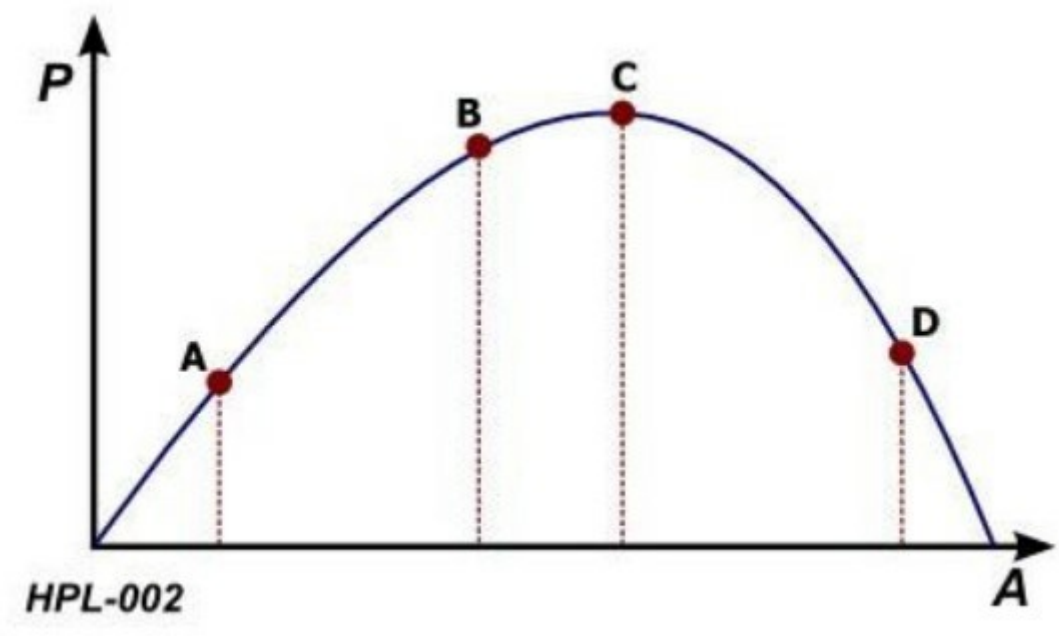
04. Which of the human senses is most influenced by hypoxia?

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

05. The movement of air flowing apart is called...

a) Convergence.
b) Concordence.
c) Subsidence.
d) Divergence.

06. 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

07. 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

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

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

09. 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

10. 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

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

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

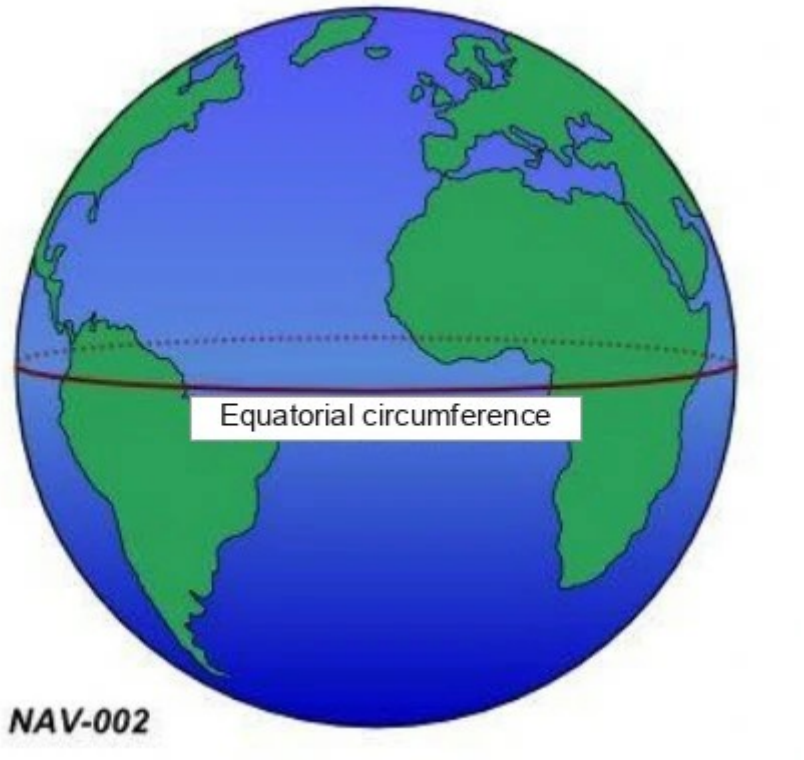
12. Given: True course: 120°. TAS: 120 kt. Wind: 150°/12 kt. The WCA equals...

a) 3° to the right
b) 6° to the right
c) 6° to the left
d) 3° to the left

13. Which characteristic is important when choosing sunglasses used by pilots?

a) Curved sidepiece
b) Non-polarised
c) Unbreakable
d) No UV filter

14. The circumference of the Earth at the equator is approximately... See figure (NAV-002)



a) 10800 km
b) 12800 km
c) 21600 NM
d) 40000 NM

15. Which abbreviation is used for the term "visual flight rules"?

a) VFS
b) VRU
c) VFR
d) VMC

16. For a short flight from A to B the pilot extracts the following information from an aeronautical chart: True course: 245°. Magnetic variation: 7° W The magnetic course (MC) equals...

a) 238°
b) 245°
c) 252°
d) 007°

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

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

18. What distance corresponds to one degree difference in latitude along any degree of longitude?

a) 30 NM
b) 60 km
c) 60 NM
d) 1 NM

19. What factors may indicate a tendency to fog formation?

a) Strong winds, decreasing temperature
b) Low spread, decreasing temperature
c) Low pressure, increasing temperature
d) Low spread, increasing temperature

20. When is it necessary to adjust the pressure in the reference scale of an altimeter?

a) After maintenance has been finished
b) Every day before the first flight
c) Once a month before flight operation
d) Before every flight and during cross country flights

21. Under which conditions "back side weather" ("Rückseitenwetter") can be expected?

a) After passing of a cold front
b) Before passing of an occlusion
c) During Foehn at the lee side
d) After passing of a warm front

22. Which of the following is NOT a risk factor for hypoxia?

a) Blood donation
b) Smoking
c) Menstruation
d) Diving

23. The connection between middle ear and nose and throat region is called...

a) Inner ear
b) Eardrum
c) Cochlea
d) Eustachian tube

24. The shown NOTAM is valid until... A1024/25 A) LOWW B) 2505211200 C) 2505211400 E) STOCKERAU VOR STO 113.00 UNSERVICEABLE.

a) 13/10/2025 00:00 UTC
b) 21/05/2026 13:00 UTC
c) 21/05/2025 14:00 UTC
d) 13/05/2025 12:00 UTC

25. An inversion layer close to the ground can be caused by...

a) Thickening of clouds in medium layers.
b) Large-scale lifting of air
c) Intensifying and gusting winds.
d) Ground cooling during the night.

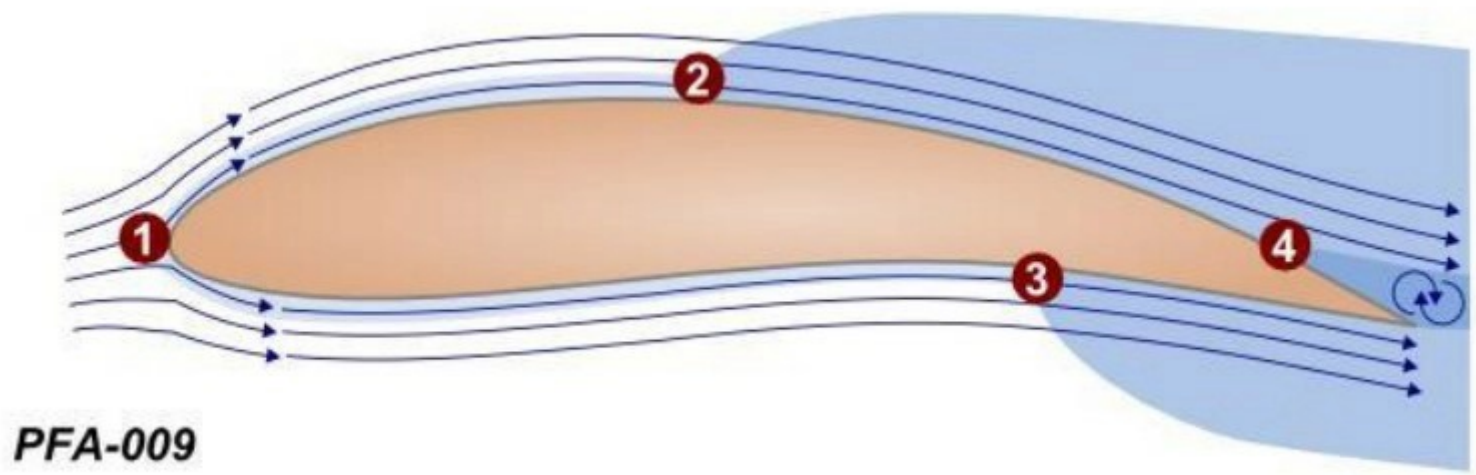
26. What is the correct way of establishing radio communication between D-EAZF and Dusseldorf Tower?

a) Dusseldorf Tower over
b) Dusseldorf Tower D-EAZF
c) D-EAZF Dusseldorf Tower
d) Tower from D-EAZF

27. Which phrase does a pilot use when he / she wants to check the readability of his / her transmission?

a) Request readability
b) What is the communication like?
c) You read me five
d) How do you read?

28. Which point on the aerofoil is represented by number 4? See figure (PFA-009)



PFA-009

a) Transition point
b) Stagnation point
c) Centre of pressure
d) Separation point

29. 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

30. Which altitude is displayed on the altimeter when set to a specific QFE?

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

31. Two aircraft are approaching head-on, or approximately so, and there is a danger of collision. What must each pilot do?

a) Alter course to the left.
b) The pilot of the heavier aircraft must climb.
c) The pilot of the lighter aircraft must climb.
d) Alter course to the right.

32. 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

33. What is referred to as torsion-stiffed leading edge?

a) The part of the main cross-beam to support torsion forces
b) Special shape of the leading edge
c) The point where the torsion moment on a wing begins to decrease
d) Both-side planked leading edge (from edge to cross-beam) to support torsion forces

34. 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

35. 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

36. 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

37. London (EGLL) is located at 000° 10'W, Cardiff (EGFF) at 003° 44'W. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between London and Cardiff?

a) In London the sunrise is 4 minutes later and sunset is 4 minutes earlier than in Cardiff

b) In London the sunrise and sunset are about 14 minutes earlier than in Cardiff

c) In London the sunrise and sunset are about 4 minutes later than in Cardiff

d) In London the sunrise is 14 minutes earlier and sunset is 14 minutes later than in Cardiff

38. 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

39. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 270° to a heading of 360°. At approximately which indication of the magnetic compass should the turn be terminated?

a) 270°

b) 030°

c) 360°

d) 330°

40. During flight you have to solve a problem, how do you proceed?

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

41. 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

42. Which type of ice forms by very small water droplets and ice crystals hitting the front surfaces of an aircraft?

a) Rime ice
b) Clear ice
c) Mixed ice
d) Hoar frost

43. The ratio of span and mean chord length is referred to as...

a) Trapezium shape
b) Tapering
c) Aspect ratio
d) Wing sweep

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

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

45. At which altitude is the atmospheric pressure approximately half the MSL value (1013 hPa)?

a) 18000 ft
b) 22000 ft
c) 10000 ft
d) 5000 ft

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

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

47. 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

48. What type of turbulence is typically found close to the ground on the lee side during Foehn conditions?

a) Clear-air turbulence (CAT)
b) Inversion turbulence
c) Turbulence in rotors
d) Thermal turbulence

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

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

50. What change of wind direction can be expected during the passage of a polar front low in Central Europe?

a) Backing wind during passage of the warm front, veering wind during passage of the cold front
b) Veering wind during passage of the warm front, veering wind during passage of the cold front
c) Veering wind during passage of the warm front, backing wind during passage of the cold front
d) Backing wind during passage of the warm front, backing wind during passage of the cold front

51. Which statement is correct with regard to the short-term memory?

a) It can store 7 (±2) items for 10 to 20 seconds
b) It can store 5 (±2) items for 1 to 2 minutes
c) It can store 10 (±5) items for 30 to 60 seconds
d) It can store 3 (±1) items for 5 to 10 seconds

52. Information about pressure patterns and frontal situation can be found in which chart?

a) Significant Weather Chart (SWC)
b) Wind chart
c) Hypsometric chart
d) Surface weather chart

53. How can a wind shear encounter in flight be avoided?

a) Avoid thermally active areas, particularly during summer, or stay below these areas
b) Avoid areas of precipitation, particularly during winter, and choose low flight altitudes
c) Avoid take-off and landing during the passage of heavy showers or thunderstorms
d) Avoid take-offs and landings in mountainous terrain and stay in flat country whenever possible

54. From which altitude on does the body usually react to the decreasing atmospheric pressure?

a) 2000 feet
b) 10000 feet
c) 12000 feet
d) 7000 feet

55. 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

56. What weather conditions can be expected during "Foehn" on the windward side of a mountain range?

a) Layered clouds, mountains obscured, poor visibility, moderate or heavy rain

b) Dissipating clouds with unusual warming, accompanied by strong, gusty winds

c) Calm wind and forming of high stratus clouds (high fog)

d) Scattered cumulus clouds with showers and thunderstorms

57. 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

58. If there is any doubt about ambiguity, a time of 1620 is to be transmitted as...

a) Sixteen twenty

b) Two zero

c) One six two zero

d) One thousand six hundred two zero

59. 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

60. What is the purpose of winglets?

a) To increase efficiency of aspect ratio
b) Reduction of induced drag.
c) Increase gliding performance at high speed
d) Increase of lift and turning manoeuvring capabilities

61. 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

62. 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

63. What is the minimum flight visibility in airspace "C" at and above FL 100 for an aircraft operating under VFR?

a) 1.5 km
b) 10 km
c) 5 km
d) 8 km

64. 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

65. The gliding weather report states environmental instability. In the morning, dew covers grass and no thermals are presently active. What development can be expected for thermal activity?

a) Formation of dew prevents all thermal activity during the following day
b) With ongoing insolation and ground warming, thermal lifting is likely to begin
c) Environmental instability prevents air from being lifted and no thermals will be generated
d) After sunset and formation of a ground-level inversion thermal activity is likely to begin

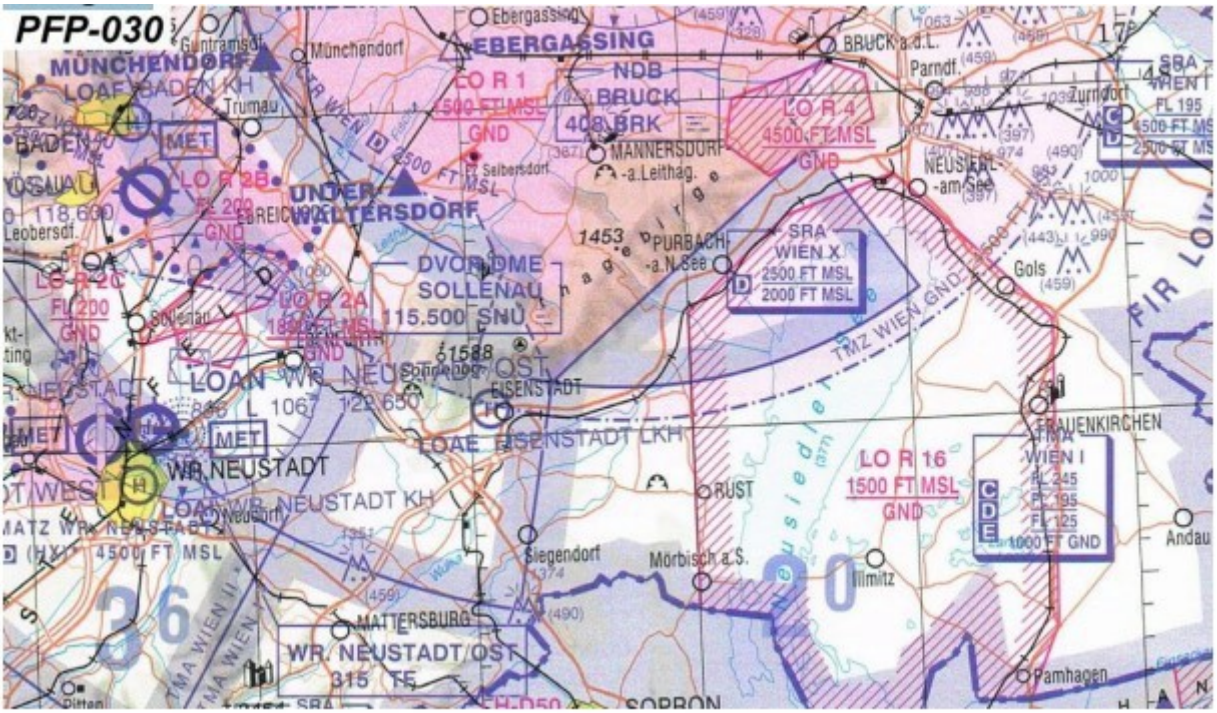
66. During a stall, the lift...

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

67. Cold air inflow in high tropospheric layers may result in...

a) Showers and thunderstorms
b) Frontal weather
c) Calm weather and cloud dissipation
d) Stabilisation and calm weather

68. The upper limit of LO R 4 equals... See annex (PFP-030)



a) 1.500 ft AGL
b) 2.500 ft AGL
c) 4.500 ft MSL
d) 1.500 ft MSL

69. 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

70. 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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Response Scheme

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

01: **C**	02: **C**	03: **D**	04: **D**
05: **D**	06: **A**	07: **A**	08: **B**
09: **C**	10: **B**	11: **C**	12: **A**
13: **B**	14: **C**	15: **C**	16: **C**
17: **A**	18: **C**	19: **B**	20: **D**
21: **A**	22: **D**	23: **D**	24: **C**
25: **D**	26: **B**	27: **D**	28: **D**
29: **B**	30: **B**	31: **D**	32: **A**
33: **D**	34: **D**	35: **C**	36: **B**
37: **B**	38: **D**	39: **D**	40: **D**
41: **B**	42: **A**	43: **C**	44: **A**
45: **A**	46: **B**	47: **A**	48: **C**
49: **C**	50: **B**	51: **A**	52: **D**
53: **C**	54: **D**	55: **A**	56: **A**
57: **B**	58: **C**	59: **D**	60: **B**
61: **C**	62: **B**	63: **D**	64: **A**
65: **B**	66: **A**	67: **A**	68: **C**
69: **A**	70: **D**		

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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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