

# Exam simulation

SPL - Sailplane Pilot License - Air Law



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STUDENT NAME:

DATE AND TIME:

## 01. Which of the stated materials shows the highest strength?

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- a) Magnesium
- b) Carbon fiber reinforced plastic
- c) Aluminium
- d) Wood

## 02. What type of fog emerges if humid and almost saturated air, is forced to rise upslope of hills or shallow mountains by the prevailing wind?

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- a) Advection fog
- b) Steaming fog
- c) Radiation fog
- d) Orographic fog

## 03. Rotation around the vertical axis is called...

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- a) Slipping
- b) Pitching
- c) Yawing
- d) Rolling

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

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

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

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- 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

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**06. What landing technique is recommended for landing on a down-hill grass area?**

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- a) In general up-hill
- b) Diagonal down-hill
- c) With brakes applied on main wheel, no air brakes
- d) Full air brakes, gear retracted and stalled

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**07. What factors may indicate a tendency to fog formation?**

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

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**08. A wind shear is...**

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- a) A wind speed change of more than 15 kt
- b) A meteorological downslope wind phenomenon in the alps
- c) A vertical or horizontal change of wind speed and wind direction
- d) A slow increase of the wind speed in altitudes above 13000 ft

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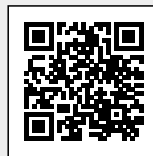
**09. The fuselage structure may be damaged by...**

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- a) Airspeed decreasing below a certain value
- b) Neutralizing stick forces according to actual flight state
- c) Exceeding the manoeuvring speed in heavy gusts
- d) Stall after exceeding the maximum angle of attack

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**10. Air consists of oxygen, nitrogen and other gases. What is the approximate percentage of other gases?**

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

**11. How do dew point and relative humidity change with decreasing temperature?**

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- a) Dew point decreases, relative humidity increases
- b) Dew point remains constant, relative humidity increases
- c) Dew point increases, relative humidity decreases
- d) Dew point remains constant, relative humidity decreases

**12. What does the dynamic pressure depend directly on?**

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- a) Lift- and drag coefficient
- b) Air density and airflow speed squared
- c) Air density and lift coefficient
- d) Air pressure and air temperature

**13. Before a winch launch, you detect a light tailwind. What has to be considered?**

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- a) Roll until lift-off will take a little longer, watch speed
- b) A weaker rated-brake-point can be used, load will be smaller
- c) Roll until lift-off will be shorter since tailwind is pushing from behind
- d) To reach more height, full pull on the elevator after lift-off

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

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

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## 15. The term 'civil twilight' is defined as...

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- a) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the apparent horizon
- b) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the true horizon
- c) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the true horizon
- d) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the apparent horizon

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

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

## 17. For TC 040°, TAS 180 kt and wind 350°/30 kt, how should the wind correction be expressed in plain language?

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- a) 7° left
- b) 7° right
- c) 3° right
- d) 3° left

## 18. Which are the different parts of the Aeronautical Information Publication (AIP)?

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- a) GEN MET RAC
- b) GEN AGA COM
- c) GEN COM MET
- d) GEN ENR AD

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

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



## 20. What has to be considered when overflying mountain ridges?

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- 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

## 21. Which parts of an aircraft mainly affect the generation of induced drag?

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- a) The front part of the fuselage
- b) The outer part of the ailerons
- c) The lower part of the gear
- d) The wing tips

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

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- 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

## 23. What must be considered for cross-border flights?

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- a) Transmission of hazard reports
- b) Requires flight plans
- c) Regular location messages
- d) Approved exceptions

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

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- 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

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

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

## 26. Weather and operational information about the destination aerodrome can be obtained during the flight by...

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- a) PIREP
- b) SIGMET
- c) ATIS
- d) VOLMET

## 27. What does a cloud coverage of "FEW" mean in a METAR weather report?

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- a) 5 to 7 eighths
- b) 8 eighths
- c) 3 to 4 eighths
- d) 1 to 2 eighths

## 28. Which of the following messages has the highest priority?

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- a) Turn left
- b) Wind 300 degrees, 5 knots
- c) Request QDM
- d) QNH 1013

## 29. Weather phenomena are most common to be found in which atmospheric layer?

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- a) Tropopause
- b) Stratosphere
- c) Thermosphere
- d) Troposphere

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## 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

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

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

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## 32. Stabilization around the lateral axis during cruise is achieved by the...

- a) Wing flaps
- b) Horizontal stabilizer
- c) Ailerons
- d) Vertical rudder

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## 33. 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

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## 34. The term "inclination" is defined as...

- a) Deviation induced by electrical fields
- b) Angle between magnetic and true north
- c) Angle between earth's magnetic field lines and horizontal plane
- d) Angle between aeroplane's longitudinal axis and true north

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## 35. The formation of medium to large precipitation particles requires...

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- a) Strong updrafts
- b) An inversion layer
- c) A high cloud base
- d) Strong wind

## 36. How are rhumb lines and great circles depicted on a direct Mercator chart?

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- 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

## 37. What does the abbreviation "FIR" stand for?

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- a) Flight information region
- b) Flight integrity receiver
- c) Flow integrity required
- d) Flow information radar

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

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

## 39. Which of the following landing areas is most suitable for an off-field landing?

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- a) A field with ripe waving crops
- b) A meadow without livestock
- c) A light brown field with short crops
- d) A lake with an undisturbed surface

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## 40. During a flight, a flight plan can be filed at the...

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

## 41. Which of the following qualities are influenced by stress? 1. Attention 2. Concentration 3. Responsiveness 4. Memory

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- a) 1, 2, 3
- b) 2, 4
- c) 1
- d) 1, 2, 3, 4

## 42. Which are the properties of a Lambert conformal chart?

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- a) The chart is conformal and an equal-area projection
- b) Great circles are depicted as straight lines and the chart is an equal-area projection
- c) Rhumb lines are depicted as straight lines and the chart is conformal
- d) The chart is conformal and nearly true to scale

## 43. Which is the purpose of the altimeter subscale?

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- a) To correct the altimeter reading for system errors
- b) To reference the altimeter reading to a predetermined level such as mean sea level, aerodrome level or pressure level 1013.25 hPa
- c) To set the reference level for the altitude decoder of the transponder
- d) To adjust the altimeter reading for non-standard temperature

## 44. What information is provided in the part "AD" of the AIP?

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- a) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces
- b) Access restrictions for airfields, passenger controls, requirements for pilots, licence samples and validity periods
- c) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts
- d) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees

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## 45. What weather phenomena have to be expected around an upper-level trough?

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- a) Calm weather, formation of lifted fog layers
- b) Calm wind, forming of shallow cumulus clouds
- c) Development of showers and thunderstorms (Cb)
- d) Formation of high stratus clouds, ground-covering cloud bases

## 46. What is the meaning of the 1:60 rule?

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- 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

## 47. The balance arm is the horizontal distance between...

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- 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

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

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

## 49. The total weight of an aeroplane is acting vertically through the...

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- a) Stagnation point
- b) Centre of pressure
- c) Neutral point
- d) Centre of gravity



**50. Measured pressure distribution in MSL and corresponding frontal systems are displayed by the...**

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

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

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

**52. 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...**

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- 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.

**53. What is the correct way to transmit the call sign OE-JVK?**

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- a) Omega Echo Jankee Victor Kilo
- b) Omega Echo Juliett Victor Kilogramm
- c) Oscar Echo Jankee Victor Kilogramm
- d) Oscar Echo Juliett Victor Kilo

**54. What has to be checked before any change in direction during glide?**

---

- a) Check for turn to be flown coordinated
- b) Check for thermal clouds
- c) Check for loose object secured
- d) Check for free airspace in desired direction

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## 55. How should a glider plane be parked when observing strong winds?

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- a) Nose into the wind, keep and weigh tail down
- b) Nose into the wind, extend air brakes, secure rudders
- c) Downwind wing on the ground, weigh wing down, secure rudders
- d) Windward wing on the ground, weigh wing down, secure rudders

## 56. The sun moves 10° of longitude. What is the difference in time?

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- a) 0.66 h
- b) 0.4 h
- c) 1 h
- d) 0.33 h

## 57. What is the subject of ICAO Annex 1?

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- a) Flight crew licensing
- b) Air traffic services
- c) Rules of the air
- d) Operation of aircraft

## 58. During a cross-country flight, you approach a downwind turning point. The point should be taken...

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- a) As low as possible
- b) As steep as possible
- c) As high as possible
- d) With as little bank as possible

## 59. The laminar boundary layer on the aerofoil is located between...

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- a) The stagnation point and the centre of pressure
- b) The stagnation point and the transition point
- c) The transition point and the separation point
- d) The transition point and the centre of pressure

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## 60. The term "ceiling" is defined as the...

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- a) Height of the base of the highest layer of clouds covering more than half of the sky below 20000 ft
- b) Height of the base of the lowest layer of clouds covering more than half of the sky below 10000 ft
- c) Height of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft
- d) Altitude of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft

## 61. What effect is referred to as "adverse yaw"?

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- 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

## 62. What process results in the formation of "orographic fog" ("hill fog")?

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- a) Prolonged radiation during nights clear of clouds
- b) Warm, moist air is moved across a hill or a mountain range
- c) Evaporation from warm, moist ground area into very cold air
- d) Cold, moist air mixes with warm, moist air

## 63. What is the best combination of traits with respect to the individual attitude and behaviour for a pilot?

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- a) Introverted - stable
- b) Introverted - unstable
- c) Extroverted - stable
- d) Extroverted - unstable

## 64. Which factor shortens landing distance?

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



**65. Which dangerous attitudes are often combined?**

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- a) Invulnerability and self-abandonment
- b) Self-abandonment and macho
- c) Macho and invulnerability
- d) Impulsivity and carefulness

**66. 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?**

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- a) Caution wake turbulence
- b) Be careful wake winds
- c) Danger jet blast
- d) Attention propwash

**67. 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?**

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- 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

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

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- 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

**69. With respect to aircraft accident and incident investigation, what are the three categories regarding aircraft occurrences?**

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- a) Event Crash Disaster
- b) Event Serious event Accident
- c) Happening Event Serious event
- d) Incident Serious incident Accident

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**70. Water ballast increases wing load by 40%. By what percentage does the minimum speed of the glider plane increase?**

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- a) 100%
- b) 40%
- c) 200%
- d) 18%

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## Response Scheme

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

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