

# Exam simulation

PPL(H) - Private Pilot License - Aircraft General Knowledge



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STUDENT NAME:

DATE AND TIME:

## 01. Which dangerous situation could arise when the helicopter engine is started in strong tailwind conditions?

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- a) Decompression sickness
- b) Carbon monoxide poisoning
- c) Binocular vision
- d) Rotary vertigo

## 02. What is the unit for voltage?

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- a) Ohm
- b) Watt
- c) Volt
- d) Ampere

## 03. The barometric altimeter with QNH setting indicates...

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- a) True altitude above MSL.
- b) Height above the pressure level at airfield elevation.
- c) Height above standard pressure 1013.25 hPa.
- d) Height above MSL.

## 04. For what approximate time period can the short-time memory store information?

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- a) 10 to 20 seconds
- b) 30 to 40 seconds
- c) 3 to 7 seconds
- d) 35 to 50 seconds

## 05. What danger arises for a helicopter during flight through a ground inversion in winter?

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- a) Cloud formation above the inversion
- b) Baffling wind conditions
- c) Electrostatic charges
- d) Ice formation below the inversion

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

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

**07. A delta-three hinge is used to allow...**

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- a) For a decreased pitch angle at an upwards flapping blade
- b) The advancing blade to flap up about the hinge
- c) The advancing blade to lead about the hinge
- d) The advancing blade to drag about the hinge

**08. What is caused by an increase of stability in a helicopter?**

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- a) An optimization of the maximum helicopter mass
- b) An enhance of control under negative load factors
- c) A decrease of the required control forces
- d) An increase of general flight safety

**09. How do manufacturers reduce the power output of their engines for use in helicopters?**

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- a) Adjust the ignition timing
- b) Decrease the shaft RPM
- c) Reduce the combustion chamber
- d) Limit the fuel flow

**10. What is meant by "isothermal layer"?**

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- a) An atmospheric layer where temperature increases with increasing height
- b) A boundary area between two other layers within the atmosphere
- c) An atmospheric layer with constant temperature with increasing height
- d) An atmospheric layer where temperature decreases with increasing height

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**11. What does "WATER PATCHES" mean regarding the reported runway condition?**

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- a) The runway is clear of water, ice, and snow
- b) Patches of standing water are visible
- c) A large part of the surface is flooded
- d) Wet surface, but no significant patches are visible

**12. What is the reason for the driving forces in an autorotation?**

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- a) Downward tilted effective airflow
- b) Low rate of descent
- c) Increased pitch angle
- d) High airspeeds

**13. Which gas is most dangerous during an engine fire?**

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- a) Nitrogen
- b) Carbon monoxide
- c) Carbon dioxide
- d) Oxygen

**14. What is the correct way of using the aircraft call sign at first contact?**

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- a) Using the first three characters only
- b) Using the last two characters only
- c) Using the first two characters only
- d) Using all characters

**15. An ATIS is valid for...**

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- a) 45 minutes
- b) 10 minutes
- c) 30 minutes
- d) 60 minutes

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

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

**17. 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 12 degrees or less below the true 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 apparent horizon.
- c) 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.
- 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.

**18. What pressure pattern can be observed when a cold front is passing?**

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- a) Continually increasing pressure
- b) Continually decreasing pressure
- c) Constant pressure pattern
- d) Shortly decreasing, thereafter increasing pressure

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

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

**20. After take-off an aeroplane gets into a wind shear with decreasing headwind. As a result...**

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- a) The aeroplane flies below the estimated climb path.
- b) The aeroplane flies above the estimated climb path.
- c) The ground speed (GS) will decrease.
- d) The true airspeed (TAS) will increase.

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**21. A flight plan has been filed for a flight departing at an uncontrolled aerodrome. When has the actual take-off time been transmitted to ATC?**

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- a) At deviation from expected off-block time by more than 15 min.
- b) Immediately after take-off.
- c) When landing is assured.
- d) Upon request from ATC.

**22. What has to be considered when entering an RMZ?**

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- a) To obtain a clearance to enter this area
- b) To permanently monitor the radio and if possible to establish radio contact
- c) To obtain a clearance from the local aviation authority
- d) The transponder has to be switched on Mode C and squawk 7000

**23. Exceeding the maximum allowed aircraft mass is...**

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- a) Only relevant if the excess is more than 10 %.
- b) Exceptionally permissible to avoid delays.
- c) Compensated by the pilot's control inputs.
- d) Not permissible and essentially dangerous.

**24. What is the meaning of an area marked as "TMZ"?**

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- a) Transponder Mandatory Zone
- b) Traffic Management Zone
- c) Touring Motorglider Zone
- d) Transportation Management Zone

**25. A wind shear is...**

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

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**26. The density of AVGAS 100LL at 15° C is...**

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- a) 1.0 kg/l
- b) 0.72 kg/l
- c) 0.82 kg/l
- d) 0.68 kg/l

**27. In what situation is it appropriate to set the transponder code 7600?**

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- a) Emergency
- b) Hijacking
- c) Flight into clouds
- d) Loss of radio

**28. What is the advantage of a hingeless rotor?**

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- a) Good autorotation characteristics
- b) Few components are necessary
- c) Excellent blade tracking
- d) Better lift distribution

**29. The bank angle of a 2-minutes circle depends on the...**

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- a) CAS.
- b) TAS.
- c) IAS.
- d) Ground speed.

**30. The shown NOTAM is valid until... A) 1024/25 A) LOWW B) 2505211200 C) 2505211400 E) STOCKERAU VOR STO 113.00 UNSERVICEABLE.**

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

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## 31. What are the minimum distances to clouds for a VFR flight in airspace "B"?

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- a) Horizontally 1.000 m, vertically 1.500 ft
- b) Horizontally 1.500 m, vertically 300 m
- c) Horizontally 1.500 m, vertically 1.000 m
- d) Horizontally 1.000 m, vertically 300 m

## 32. Which instrument can be affected by the hysteresis error?

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- a) Direct reading compass
- b) Altimeter
- c) Vertical speed indicator
- d) Tachometer

## 33. During a flight with a flight plan submitted, landing is conducted at an airfield other than the destination stated in the filed flight plan. Who has to be contacted by the pilot immediately?

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- a) The police department
- b) Aeronautical Information Service (AIS).
- c) The flight manager on duty.
- d) Local office for aerial supervision.

## 34. What is the meaning of the phrase "Correction"?

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- a) I understand your message and will comply with it
- b) Permission for proposed action is granted
- c) An error has been made in this transmission. The correct version is...
- d) I have received all of your last transmission

## 35. The term "tropopause" is defined as...

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

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## 36. The range of a VOR is affected by...

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- a) Daylight interference
- b) Multipath propagation of the ground wave.
- c) Reflected sky waves.
- d) Transmitter and receiver altitude.

## 37. The saturated adiabatic lapse rate is...

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

## 38. After entering an autorotation a large helicopter mass leads to...

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- a) A rapid collapse of the rotor RPM
- b) A rapid build-up of the rotor RPM
- c) A large change in center of gravity
- d) A small rate of descent in a vertical autorotation

## 39. What happens to thrust and tangential force if the rotor RPM decreases by about 10 % in cruise flight?

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- a) The thrust and the tangential force decrease
- b) The thrust and the tangential force increase
- c) The thrust decreases and the tangential force remains constant
- d) The thrust remains constant and the tangential force increases

## 40. What is the advantage of a pushing tail rotor over a pulling tail rotor?

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- a) Gain of thrust by Coanda and Magnus effect due to the airflow around the tail boom
- b) Effective airflow of tail rotor blades by using the downwash
- c) Less thrust loss by free outflow of the accelerated air mass
- d) Self-compensating anti-torque operation by using the downwash

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## 41. During an unaccelerated flight...

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- a) The vertical component of thrust equals the horizontal component of thrust and drag equals gravity.
- b) The vertical component of thrust equals gravity and the horizontal component of thrust equals drag.
- c) The vertical component of thrust equals drag and the horizontal component of thrust equals gravity.
- d) The horizontal component of thrust equals the sum of drag and gravity.

## 42. What cloud sequence can typically be observed during the passage of a warm front?

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- a) Squall line with showers of rain and thunderstorms (Cb), gusting wind followed by cumulus clouds with isolated showers of rain
- b) Wind becoming calm, dissipation of clouds and warming during summer; formation of extended high fog layers during winter
- c) Cirrus, thickening altostratus and altocumulus clouds, lowering cloud base with rain, nimbostratus
- d) In coastal areas during daytime wind from the coast and forming of cumulus clouds, dissipation of clouds during evening and night

## 43. The induced airflow on the rotor of a helicopter in level flight has the greatest value at the...

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- a) Rear rotor area
- b) Advancing rotor blade
- c) Retreating rotor blade
- d) Front rotor area

## 44. UTC is...

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

## 45. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL125?

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- a) 5000 m
- b) 8000 m
- c) 3000 m
- d) 1500 m

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

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

**47. An aircraft cruises on a heading of 180° with a true airspeed of 100 kt. The wind comes from 180° with 30 kt. Neglecting instrument and position errors, which will be the approximate reading of the airspeed indicator?**

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- a) 100 kt
- b) 70 kt
- c) 30 kt
- d) 130 kt

**48. What is the great circle distance between two points A and B on the equator when the difference between the two associated meridians is exactly one degree of longitude?**

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- a) 120 NM
- b) 216 NM
- c) 400 NM
- d) 60 NM

**49. What is the distance between the parallels of latitude 48°N and 49°N along a meridian line?**

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- a) 111 NM
- b) 10 NM
- c) 1 NM
- d) 60 NM

**50. The altimeter can be checked on the ground by setting...**

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- a) QNE and checking that the indication shows zero on the ground.
- b) QFF and comparing the indication with the airfield elevation.
- c) QNH and comparing the indication with the airfield elevation.
- d) QFE and comparing the indication with the airfield elevation.

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**51. When should turns at low altitudes above villages be avoided with regard to noise abatement procedures?**

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- a) In horizontal flight
- b) In climb
- c) In descent
- d) During the approach

**52. A pilot license issued in accordance with ICAO Annex 1 is valid in...**

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- a) All ICAO countries.
- b) The country where the license was acquired.
- c) Those countries that have accepted this license on application.
- d) The country where the license was issued.

**53. 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...**

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- a) 252°.
- b) 245°.
- c) 007°.
- d) 238°.

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

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

**55. Which danger exists during engine start?**

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- a) Sparking
- b) Cable fire
- c) Smoke emission
- d) Carburettor fire

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## 56. The beam theory enables statements about the...

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- a) Energy conversion in an autorotation
- b) Power requirements during hover flight
- c) Transition lift close to the ground
- d) Drag in cruise flight

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

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

## 58. Which of the following options does NOT stimulate motion sickness (disorientation)?

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- a) Non-accelerated straight and level flight
- b) Turbulence in level flight
- c) Head movements during turns
- d) Flying under the influence of alcohol

## 59. In which outside air temperature is icing most likely?

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- a) Between -15° C and 0° C
- b) Between -5° C and +20° C
- c) Between -20° C and +5° C
- d) Between -10° C and +10° C

## 60. Carbon monoxide poisoning can be caused by...

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- a) Generator failure
- b) Cracks in the heat exchanger
- c) Fuel or hydraulic fluids
- d) Pitot icing

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**61. 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) Airplane logbook f) Appropriate papers for every crew member g) Technical logbook**

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- a) D, f, g
- b) B, c, d, e, f, g
- c) A, b, c, e, f
- d) A, b, e, g

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

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

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

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

**64. With regard to global circulation within the atmosphere, where does polar cold air meet subtropical warm air?**

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- a) At the polar front
- b) At the geographic poles
- c) At the subtropical high pressure belt
- d) At the equator

**65. Calculated take-off mass = 1082 kg, calculated CG = 0.254 m, fuel burn = 55 l on station 0.40 m. Where is the CG situated after the landing?**

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- a) 24.8 cm
- b) 25.2 cm
- c) 24.6 cm
- d) 25.4 cm

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**66. With only a slight crosswind, what is the danger at take-off after the departure of a heavy aeroplane?**

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- a) Wake turbulence rotate faster and higher.
- b) Wake turbulence twisting transverse to the runway.
- c) Wake turbulence is amplified and distorted.
- d) Wake turbulence on or near the runway.

**67. In flight, a little smoke emerges from behind the instrument panel. An electrical fire is suspected. Which action, with respect to the pilot's operating manual, should be taken?**

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- a) Shut down the engine
- b) Turn off the heat
- c) Use the fire extinguisher
- d) Turn off the master switch

**68. What shall be considered before terminating a turn in an autorotation?**

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- a) The Coriolis force causes an increase in the main rotor rpm
- b) The pitch angle must be decreased by using the collective pitch lever again
- c) The decreasing gravity relieves the main rotor and the helicopter cabin
- d) The flight velocity shall be increased to obtain all the kinetic energy

**69. What is the meaning of a flashing red light signal at a controlled aerodrome directed to an aircraft in flight?**

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- a) Cleared to land
- b) Airport unsafe, do not land
- c) Give way to other aircraft and continue circling
- d) Return for landing, followed by steady green at the appropriate time

**70. Considering the following fuel data, how much trip fuel is required? Fuel for start-up and taxi: 5 L Fuel for take-off and climb: 12 L Fuel for cruise flight: 25 L Fuel for descent, approach and landing: 7 L Fuel for taxi and parking: 3 L Fuel to alternate: 13 L Final reserve fuel: 10 L**

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- a) 75 L
- b) 49 L
- c) 44 L
- d) 52 L

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## Response Scheme

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

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