

# Exam simulation

PPL(H) - Private Pilot License - Air Law



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STUDENT NAME:

DATE AND TIME:

## 01. Which action best supports safe management of weather diversion decision?

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- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Divert before options become limited.
- d) Ignore it when the helicopter has sufficient fuel.

## 02. Which statement about night vision is correct?

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- a) It is best in the centre of vision.
- b) It is unaffected by oxygen level.
- c) It improves immediately after looking at white light.
- d) It depends strongly on dark adaptation and is degraded by bright light.

## 03. Air traffic control service is conducted by which services?

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- a) FIS (flight information service) AIS (aeronautical information service) AFS (aeronautical fixed telecommunication service)
- b) APP (approach control service) ACC (area control service) FIS (flight information service)
- c) TWR (aerodrome control service) APP (approach control service) ACC (area control service)
- d) ALR (alerting service) SAR (search and rescue service) TWR (aerodrome control service)

## 04. Why is stall region in autorotation important for a PPL(H) flight?

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- a) It is relevant only to airline transport operations.
- b) It can be ignored when the flight remains local.
- c) It is replaced by passenger preference.
- d) It produces drag and does not drive the rotor efficiently.

## 05. Which section of the flight manual describes the basic empty mass of an aircraft?

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

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## 06. What is the call sign of the flight information service?

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- a) Advice
- b) Flight information
- c) Info
- d) Information

## 07. Which action best supports safe management of driven region of the rotor?

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- a) Balance rotor RPM using collective.
- b) Delay the decision until after take-off.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

## 08. What does the dynamic pressure depend directly on?

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

## 09. What is indicated by a pattern of longitudinal stripes of uniform dimensions disposed symmetrically about the centreline of a runway?

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- a) A ground roll could be started from this position
- b) Do not touch down before them
- c) Do not touch down behind them
- d) At this point the glide path of an ILS hits the runway

## 10. Which of the following frequencies lies in the aviation VHF voice communication band?

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- a) 118.75 MHz
- b) 327.25 MHz
- c) 327.25 kHz
- d) 118.75 kHz

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## 11. The minimum flight visibility at 5000 ft MSL in airspace B for VFR flights is...

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

## 12. Which statement about startle effect is correct?

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- a) It can delay or degrade the initial response to an unexpected event.
- b) It always improves reaction quality.
- c) It affects only student pilots.
- d) It replaces checklist discipline.

## 13. The occurrence of a vertigo is most likely when moving the head...

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- a) During a descent.
- b) During a turn.
- c) During a climb.
- d) During a straight horizontal flight.

## 14. What does a readability of 1 indicate?

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

## 15. Which action best supports safe management of surface condition?

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- a) Assess the landing site surface before committing.
- b) Delay the decision until after take-off.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

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## 16. Which type of cloud is associated with prolonged rain?

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- a) Cumulonimbus
- b) Nimbostratus
- c) Cirrostratus
- d) Altocumulus

## 17. Which stage of a thunderstorm is dominated by updrafts?

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- a) Cumulus stage
- b) Mature stage
- c) Upwind stage
- d) Dissipating stage

## 18. Which answer is correct concerning stress?

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- a) Everybody reacts to stress in the same manner
- b) Stress can occur if there seems to be no solution for a given problem
- c) Training and experience have no influence on the occurrence of stress
- d) Stress and its different symptoms are irrelevant for flight safety

## 19. Which statement about vortex ring state is correct?

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- a) It occurs only with the engine stopped.
- b) It can occur with high rate of descent, low forward speed and power applied.
- c) It is prevented by increasing collective indefinitely.
- d) It is a compass turning error.

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

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- a) Heading of  $0^\circ$
- b) Inclination of  $0^\circ$
- c) Variation of  $0^\circ$
- d) Deviation of  $0^\circ$

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

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

**22. Increasing a helicopter's mass will...**

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- a) Increase the climb path angle.
- b) Decrease the rate of climb.
- c) Increase the lift coefficient.
- d) Decrease the power available.

**23. Which action best supports safe management of compass deviation card?**

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- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Apply the relevant deviation correction.
- d) Ignore it when the helicopter has sufficient fuel.

**24. Which action best supports safe management of lost procedure?**

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- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Ignore it when the helicopter has sufficient fuel.
- d) Climb if safe, communicate, conserve fuel and use available aids.

**25. Which statement about a transponder is correct?**

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- a) It measures wind direction.
- b) It replies to secondary surveillance radar interrogations.
- c) It stores engine oil.
- d) It replaces the magnetic compass.

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

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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.

**27. What is the parallax error?**

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- a) Misperception of speed during taxiing
- b) Wrong interpretation of instruments caused by the angle of vision
- c) A decoding error in communication between pilots
- d) Long-sightedness due to aging especially during night

**28. The altimeter is switched from local QNH to 1013.25 hPa...**

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- a) When descending below FL 100.
- b) At the decision height.
- c) At 4000 ft.
- d) When climbing above the transition altitude.

**29. The correct transponder code for emergencies is...**

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

**30. Which weather phenomenon is typically associated with wind shear?**

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

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## 31. 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

## 32. How are two parallel runways designated?

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- a) The left runway gets the suffix "L", the right runway remains unchanged
- b) The left runway gets the suffix "-1", the right runway "-2"
- c) The left runway remains unchanged, the right runway designator is increased by 1
- d) The left runway gets the suffix "L", the right runway "R"

## 33. Which action best supports safe management of nutrition?

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- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Ignore it when the helicopter has sufficient fuel.
- d) Avoid flying when hunger or heavy meals may degrade performance.

## 34. Why is personal minimums important for a PPL(H) flight?

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- a) They provide a safety buffer above legal minima.
- b) It is relevant only to airline transport operations.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

## 35. Which of the following options has an effect on the autorotation characteristics?

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- a) Smoothly working tail rotor control and low RPM warning systems
- b) Air temperature and wind speed
- c) Pressure altitude and wind speed
- d) Helicopter mass and density altitude

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## 36. Which action best supports safe management of emergency landing briefing?

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- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Ignore it when the helicopter has sufficient fuel.
- d) Give clear instructions when time permits.

## 37. Given: Calibrated airspeed (CAS): 155 kt. Flight level (FL) 80. Outside air temperature (OAT): +15° C. The true airspeed (TAS) equals...

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- a) 180 kts.
- b) 170 kts.
- c) 155 kts.
- d) 134 kts.

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**38. What cloud type does the picture show? Use figure (MET-004).**



- a) Stratus
- b) Altocumulus
- c) Cirrus
- d) Cumulus

**39. What is the correct way of acknowledging the instruction "Next report PAH"?**

- a) Roger
- b) Report PAH
- c) Wilco
- d) Positive

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## 40. Why is alternate planning important for a PPL(H) flight?

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- a) It is relevant only to airline transport operations.
- b) It can be ignored when the flight remains local.
- c) It is replaced by passenger preference.
- d) It gives a practical option if the destination becomes unsuitable.

## 41. Which statement about profile drag is correct?

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- a) It is caused only by radio antennas.
- b) It is associated with the rotor blade moving through the air.
- c) It disappears when blade pitch increases.
- d) It is unrelated to rotor speed.

## 42. What phrase is used by a pilot if a transmission is to be answered with "no"?

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- a) Finish
- b) No
- c) Not
- d) Negative

## 43. What kind of hydraulic oil is used in helicopter hydraulic systems today?

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- a) Synthetic oil
- b) Bio-oil
- c) Mineral oil
- d) Vegetable oil

## 44. Visual illusions are mostly caused by...

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- a) Colour blindness.
- b) Binocular vision.
- c) Misinterpretation of the brain.
- d) Rapid eye movements.

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## 45. Heavy downdrafts and strong wind shear close to the ground can be expected...

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- a) During approach to an aerodrome at the coast with a strong sea breeze.
- b) During warm summer days with high, flattened Cu clouds.
- c) Near the rainfall areas of heavy showers or thunderstorms
- d) During cold, clear nights with the formation of radiation fog.

## 46. What is a likely consequence of incorrect QNH set on the altimeter?

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- a) The altimeter automatically resets to standard pressure.
- b) The aircraft becomes exempt from maintenance requirements.
- c) the indicated altitude will be wrong.
- d) The transponder changes to emergency code automatically.

## 47. Which action best supports safe management of communication under stress?

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- a) Delay the decision until after take-off.
- b) Use concise standard calls and ask for repetition when needed.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

## 48. Which statement about QNH transmission is correct?

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- a) It should be ignored in VFR flight.
- b) It is read back only by IFR airliners.
- c) It replaces the transponder code.
- d) The pressure value should be read back when issued by ATC.

## 49. Which statement about hyperventilation is correct?

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- a) It always improves oxygen delivery.
- b) It may be associated with stress and can cause tingling or dizziness.
- c) It is corrected by climbing higher.
- d) It is a sign of perfect workload management.

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**50. 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...**

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

**51. The drive system of the autogyro's main rotor is based on...**

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- a) The speed of the airflow.
- b) A fan in the cabin.
- c) An engine in the cabin.
- d) An engine at the rotor blade tip

**52. What should a PPL(H) pilot do before entering a RMZ?**

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- a) establish or maintain the required radio communication.
- b) Assume it is inactive unless ATC calls first.
- c) Switch off the transponder to reduce workload.
- d) Ignore it when flying VFR below 1,000 ft AGL.

**53. Why is take-off power margin important for a PPL(H) flight?**

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- a) It determines whether the helicopter can safely lift off and climb under the conditions.
- b) It is relevant only to airline transport operations.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

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

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

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## 55. The term "runway" is defined as a...

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- a) Rectangular area on a land or water aerodrome prepared for the landing and take-off of aircraft.
- b) Round area on an aerodrome prepared for the landing and take-off of aircraft.
- c) Rectangular area on a land aerodrome prepared for the landing and take-off of helicopters.
- d) Rectangular area on a land aerodrome prepared for the landing and take-off of aircraft.

## 56. Why is magnetic variation update important for a PPL(H) flight?

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- a) It is relevant only to airline transport operations.
- b) Outdated variation can create heading and bearing errors.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

## 57. Why is surface condition important for a PPL(H) flight?

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- a) Dust, snow, slope or loose material can affect safety.
- b) It is relevant only to airline transport operations.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

## 58. What weather conditions can be expected in high pressure areas during summer?

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- a) Squall lines and thunderstorms
- b) Changing weather with passing of frontal lines
- c) Calm weather and cloud dissipation, few high Cu
- d) Calm winds and widespread areas with high fog

## 59. 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) Danger jet blast
- c) Be careful wake winds
- d) Attention propwash



## 60. What chart shows areas of precipitation?

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- a) Radar picture
- b) Satellite picture
- c) GAFOR
- d) Wind chart

## 61. 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

## 62. A pilot wants to approach an NDB on QDM 090°. The aircraft flies for about 5 minutes with a magnetic heading (MH) of 095° and the RBI indication of 355°. After 6 minutes the RBI indicates 358°. Which statement is correct?

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- a) The crosswind component decreased; the pilot has to increase the MH
- b) The crosswind component increased; the pilot has to increase the MH
- c) The crosswind component increased; the pilot has to decrease the MH
- d) The crosswind component decreased; the pilot has to decrease the MH

## 63. Which of the following options states the working principle of a vertical speed indicator?

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- a) Total air pressure is measured and compared to static pressure
- b) Measuring the present static air pressure and comparing it to the static air pressure inside a reservoir
- c) Measuring the vertical acceleration through the displacement of a gimbal-mounted mass
- d) Static air pressure is measured and compared against a vacuum

## 64. Which statement about the freewheel unit in a helicopter is correct?

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- a) It allows the rotor system to continue turning if engine drive is lost.
- b) It locks the rotor during autorotation.
- c) It controls the radio frequency selector.
- d) It prevents collective pitch changes.



**65. 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

**66. Why is fuel burn monitoring important for a PPL(H) flight?**

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- a) It is relevant only to airline transport operations.
- b) It can be ignored when the flight remains local.
- c) It is replaced by passenger preference.
- d) It detects deviations from the plan early.

**67. Distress messages contain...**

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- a) Information concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance
- b) Information concerning urgent spare parts which are required for a continuation of flight and which have to be ordered in advance.
- c) Information concerning the apron personell and which imply an imminent danger to landing aircraft.
- d) Information concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.

**68. 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

**69. Which statement about the required force to change the pitch angle is correct?**

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- a) It is the smallest by using an advance angle of  $90^\circ$
- b) It is the smallest by using a delta-three-hinge
- c) It must be greater than the rotor disc loading
- d) It must be greater than the tangential force

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## 70. Which statement about aluminium structures is correct?

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- a) They require no inspection once installed.
- b) They may be repaired with household adhesive.
- c) They are unaffected by heat, UV and operating time.
- d) corrosion protection and inspection remain important.

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## Response Scheme

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

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