

# Exam simulation

PPL(H) - Private Pilot License - Flight Performance and Planning

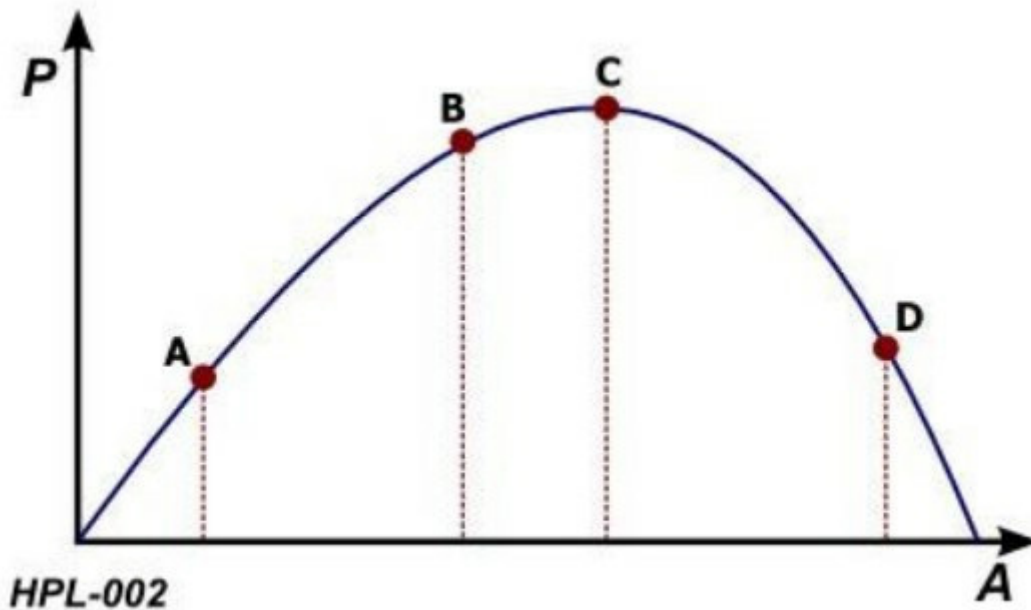


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STUDENT NAME:

DATE AND TIME:

01. The ideal level of arousal is at which point in the diagram? Use figure (HPL- 002)  $P = \text{Performance}$   $A = \text{Arousal / Stress}$



- a) Point D
- b) Point C
- c) Point B
- d) Point A

02. After flying 50 NM, the aircraft is 3 NM left of track. What approximate correction is needed to parallel the desired track?

- a) 4° left
- b) 8° right
- c) 2° left
- d) 4° right

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## 03. In what case is visibility transmitted in metres?

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- a) Up to 5 km
- b) Greater than 5 km
- c) Up to 10 km
- d) Greater than 10 km

## 04. Which transponder code should be set during a radio failure without any request?

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

## 05. What is the meaning of the radiotelephony phrase "Unable"?

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- a) No.
- b) Disregard my last transmission.
- c) Emergency traffic only.
- d) I cannot comply with your instruction or request.

## 06. Which statement about slope operations is correct?

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- a) They are limited only by passenger comfort.
- b) They require checking the helicopter limitations and available control margin.
- c) They remove the need for wind assessment.
- d) They are always safer than level ground operations.

## 07. Which statement about situational awareness is correct?

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- a) It is the same as indicated airspeed.
- b) It is provided only by ATC.
- c) It is not needed in local flights.
- d) It is understanding what is happening and anticipating what may happen next.

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## 08. Which statement about wire hazards is correct?

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- a) They are always marked by NOTAM.
- b) They are difficult to see and should be anticipated near roads, valleys and built-up areas.
- c) They are visible only on radar.
- d) They affect only fixed-wing aircraft.

## 09. After flying 120 NM, the aircraft is 6 NM right of track. What approximate correction is needed to parallel the desired track?

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- a) 3° left
- b) 3° right
- c) 7° left
- d) 1° right

## 10. What is the safest operational response? A strong vibration starts in the rotor system.

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- a) Land as soon as appropriate according to the flight manual.
- b) Continue as planned because helicopters can land anywhere.
- c) Delay all action until reaching destination.
- d) Ask passengers to decide the next action.

## 11. For a given fuel load, if the helicopter mass is increased...

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- a) The normal fuel burn will be increased.
- b) The power required will be unchanged.
- c) The maximum range will be decreased.
- d) The parasite drag will be unchanged.

## 12. Why is effective translational lift important for a PPL(H) flight?

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- a) It is relevant only to airline transport operations.
- b) It improves rotor efficiency as airflow becomes more horizontal and less recirculated.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

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## 13. What does a cloud coverage of "BKN" mean in a METAR weather report?

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

## 14. Which Q-code is used for the true bearing from the station?

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- a) QDR
- b) QDM
- c) QTE
- d) QUJ

## 15. On what frequency shall a blind transmission be made?

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- a) On the current frequency
- b) On the appropriate FIS frequency
- c) On a tower frequency
- d) On a radar frequency of the lower airspace

## 16. 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

## 17. 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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**18. An aircraft is following a true course (TC) of  $220^\circ$  at a constant TAS of 220 kt. The wind vector is  $270^\circ/50$  kt. The ground speed (GS) equals...**

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- a) 135 kt
- b) 255 kt
- c) 170 kt
- d) 185 kt

**19. Which statement about standard phraseology is correct?**

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- a) It is used only in written exams.
- b) It reduces ambiguity and communication errors.
- c) It should be replaced by slang when workload is high.
- d) It is unnecessary in uncontrolled airspace.

**20. The term 'magnetic course' (MC) is defined as...**

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

**21. Which statement about the electrical alternator or generator is correct?**

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- a) It creates hydraulic pressure for the rotor brake only.
- b) It measures outside air temperature.
- c) It supplies electrical power and charges the battery during normal operation.
- d) It replaces all fuses and circuit breakers.

**22. Which statement about a NOTAM affecting the destination is correct?**

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- a) It can be ignored by private pilots.
- b) It automatically cancels the flight plan.
- c) It must be considered before deciding whether the destination remains suitable.
- d) It is relevant only to IFR traffic.

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## 23. What is meant by "isothermal layer"?

---

- 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

## 24. The effective angle of attack is the angle between...

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- a) Chord line and tip path plane
- b) Effective airflow and chord line
- c) Tip path plane and rotor blade
- d) Effective airflow and tip path plane

## 25. Why is airspace boundary awareness important for a PPL(H) flight?

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- a) It is relevant only to airline transport operations.
- b) It prevents unintended infringement.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

## 26. Which statement about workload management is correct?

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- a) It means completing paperwork before controlling the aircraft.
- b) It is irrelevant during emergencies.
- c) It includes prioritising aircraft control, navigation and communication.
- d) It replaces situational awareness.

## 27. What is the safest operational response? The pilot is unsure whether a defect affects airworthiness.

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- a) Continue as planned because helicopters can land anywhere.
- b) Delay all action until reaching destination.
- c) Ask passengers to decide the next action.
- d) Do not depart until the defect is assessed and released as required.

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## 28. What has to be considered during refueling?

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- a) Apply ground wires, turn on the main switch and magneto ignition
- b) No open fires, obey smoking ban and apply ground cables
- c) Check the fuel content of the tank with a torch and remove fire protection
- d) Refuel through a soaked rag and keep a fire extinguisher available

## 29. The required data for a mass and balance calculation including masses and balance arms can be found in the...

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- a) Documentation of the annual inspection.
- 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) Certificate of airworthiness.

## 30. Which statement about a rescue coordination centre is correct?

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- a) It issues all private pilot licences.
- b) It controls aircraft maintenance release.
- c) It replaces the aerodrome operator.
- d) It coordinates search and rescue action within its area of responsibility.

## 31. During an autorotation with forward speed of a helicopter the driving forces are located in the...

---

- a) Region of the retreating rotor blade.
- b) Inner region.
- c) Outer region.
- d) Region of the advancing rotor blade.

## 32. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?

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- a) Roger
- b) Wilco
- c) Squawk 4321, 131.325
- d) Squawk 4321, wilco

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**33. A helicopter burns 30 l/h. Planned flight time is 70 minutes and required reserve is 20 l. What minimum fuel should be planned?**

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- a) 35 l
- b) 45 l
- c) 55 l
- d) 63 l

**34. What is a tubular steel construction with a non self-supporting skin called?**

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- a) Grid construction
- b) Honeycomb structure
- c) Monocoque construction
- d) Semi-monocoque construction

**35. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at 5000 ft MSL?**

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

**36. After lift-off, a much stronger than expected airspeed increase is experienced during the initial climb. What may be expected if the aircraft has entered a microburst?**

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- a) A decreased climb rate and airspeed
- b) An increased climb rate and decreased airspeed
- c) A decreased climb rate and increased airspeed
- d) An increased climb rate and airspeed

**37. Why is freezing level 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 helps assess icing risk in visible moisture.
- d) It is replaced by passenger preference.

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

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- a) One six two zero
- b) One thousand six hundred two zero
- c) Two zero
- d) Sixteen twenty

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

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

**40. What should a PPL(H) pilot do before entering a CTR?**

---

- a) Assume it is inactive unless ATC calls first.
- b) Switch off the transponder to reduce workload.
- c) obtain the required ATC clearance before entry.
- d) Ignore it when flying VFR below 1,000 ft AGL.

**41. Why is transverse flow effect important for a PPL(H) flight?**

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- a) It can produce vibration and attitude changes during acceleration.
- 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.

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

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

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## 43. Which statement about blade flapping is correct?

---

- a) It helps compensate for dissymmetry of lift.
- b) It prevents all rotor RPM changes.
- c) It is used only for braking after shutdown.
- d) It is unrelated to forward flight.

## 44. Which abbreviation is used for the term "abeam"?

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- a) ABM
- b) ABE
- c) ABA
- d) ABB

## 45. What is the meaning of the abbreviation "TRA"?

---

- a) Transponder Area
- b) Temporary Reserved Airspace
- c) Terminal Area
- d) Temporary Radar Routing Area

## 46. Which altitude marks the lower limit where the body is unable to completely compensate the effects of the low atmospheric pressure?

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- a) 12000 feet
- b) 7000 feet
- c) 5000 feet
- d) 22000 feet

## 47. The planned distance is 100 NM and groundspeed is 120 kt. What is the approximate flight time?

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- a) 50 minutes
- b) 42 minutes
- c) 60 minutes
- d) 68 minutes

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## 48. In which way should a pilot confirm received light signals in flight?

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- a) Rock the wings (in the daytime)
- b) Apply some changes of RPM
- c) Apply some fast pitch changes
- d) Apply some changes of the rudder

## 49. In what cases is visibility transmitted in kilometres?

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- a) Up to 10 km
- b) Greater than 5 km
- c) Greater than 10 km
- d) Up to 5 km

## 50. What does the term "Red-out" mean?

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- a) Anaemia caused by an injury
- b) "Red vision" during negative g-loads
- c) Rash during decompression sickness
- d) Falsified colour perception during sunrise and sunset

## 51. Which statement about cyclic pitch is correct?

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- a) It changes all blade pitch equally.
- b) It controls fuel flow only.
- c) It tilts the rotor disc to control movement around pitch and roll axes.
- d) It is used only after shutdown.

## 52. What is the meaning of a flashing red light to an aircraft in flight?

---

- a) Cleared for take-off.
- b) Aerodrome unsafe, do not land.
- c) Make a right-hand circuit.
- d) Squawk 7600 immediately.

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## 53. Which statement about fuel planning is correct?

---

- a) It may ignore start, taxi and holding fuel.
- b) It must include planned fuel, contingencies/reserves and operational requirements.
- c) It is not needed for local flights.
- d) It is always based on maximum fuel only.

## 54. 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

## 55. Which statement about high gross mass is correct?

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- a) It always lowers power required.
- b) It eliminates retreating blade stall risk.
- c) It has no effect on hover ceiling.
- d) It increases power required and can reduce performance margins.

## 56. 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

## 57. Which action best supports safe management of minimum safe altitude?

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- a) Calculate it before flight and update for route changes.
- 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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## 58. The connection between middle ear and nose and throat region is called...

---

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

## 59. Which statement about MAYDAY is correct?

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- a) It is used for distress when grave and imminent danger requires immediate assistance.
- b) It is used only for weather information.
- c) It means the flight plan is closed.
- d) It is a routine taxi instruction.

## 60. What phrase is used by a pilot if a transmission is to be answered with "yes"?

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- a) Affirmative
- b) Yes
- c) Affirm
- d) Roger

## 61. The "swiss cheese model" can be used to explain the...

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- a) State of readiness of a pilot
- b) Procedure for an emergency landing
- c) Optimal problem solution
- d) Error chain

## 62. Which action best supports safe management of convective SIGMET information?

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- a) Delay the decision until after take-off.
- b) Avoid affected areas by a safe margin.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

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**63. 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

**64. What is the meaning of a steady green light to an aircraft in flight?**

---

- a) Cleared for take-off.
- b) Make a right-hand circuit.
- c) Squawk 7600 immediately.
- d) Cleared to land.

**65. True course is 012° and magnetic variation is 6° E. What is the magnetic course?**

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- a) 018°
- b) 016°
- c) 006°
- d) 356°

**66. What does the reported runway condition "DAMP" mean?**

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- a) A large part of the surface is flooded
- b) The runway is clear of water, ice, and snow
- c) Change of colour on the surface due to moisture
- d) Wet surface, but no significant puddles are visible

**67. Which Q-code is used for the true bearing to the station?**

---

- a) QTE
- b) QDR
- c) QUJ
- d) QDM

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## 68. What should a PPL(H) pilot do when operating close to 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.

## 69. The term "FATO" is defined as...

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- a) A treaty between federal organisations.
- b) An area for final approach and take-off for helicopters.
- c) A noise abatement procedure for VFR traffic.
- d) A missed approach procedure for essential traffic.

## 70. Why is emergency landing briefing 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 prepares passengers for brace position, exits and evacuation.

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## Response Scheme

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

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