

# Exam simulation

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



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STUDENT NAME:

DATE AND TIME:

## 01. The term "maximum elevation figure" (MEF) is defined as...

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- a) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude.
- b) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude plus a safety margin, rounded to the next higher 100 ft.
- c) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude plus a safety margin of 1000 ft (305 m), rounded to the next higher 100 ft.
- d) The highest elevation within an area covering 1 degree of latitude and 1 degree of longitude plus a safety margin, rounded to the next lower 100 ft.

## 02. Which action best supports safe management of post-landing shutdown?

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- a) Delay the decision until after take-off.
- b) Maintain control until the rotor is safely stopped or secured.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

## 03. Which action best supports safe management of fire after landing?

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- a) Shut down and evacuate according to procedure.
- 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.

## 04. A helicopter approach is conducted into the wind because...

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- a) It reduces groundspeed and increases the landing distance.
- b) It increases the true airspeed and decreases the landing distance.
- c) This provides more control at low groundspeeds.
- d) This avoids wake turbulence near the touchdown zone.

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## 05. 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

## 06. Which statement about low rotor RPM is correct?

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- a) Increase collective to load the rotor further.
- b) Switch off all radios first.
- c) Reduce collective as required and recover RPM according to the flight manual.
- d) Ignore it if airspeed is low.

## 07. Which statement about heading is correct?

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- a) It is always equal to track in wind.
- b) It is the direction in which the aircraft nose is pointing.
- c) It is measured only by DME.
- d) It is the same as QNH.

## 08. Which statement about the vestibular system is correct?

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- a) It always gives reliable attitude information in IMC.
- b) It can create misleading sensations during acceleration or turns.
- c) It replaces the attitude indicator.
- d) It is unaffected by head movement.

## 09. What mass equals 102 litres of Avgas 100LL?

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- a) 74 lbs
- b) 142 lbs
- c) 142 kg
- d) 74 kg

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## 10. The validity period of a helicopter type rating is...

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- a) 10 years.
- b) 1 year.
- c) 2 years.
- d) 5 years.

## 11. 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.

## 12. 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

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

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

## 14. The pressure at MSL in ISA conditions is...

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- a) 1123 hPa.
- b) 113.25 hPa.
- c) 1013.25 hPa.
- d) 15 hPa.

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## 15. Why is approach briefing important for a PPL(H) flight?

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- a) It is relevant only to airline transport operations.
- b) It reduces workload and clarifies wind, obstacles and go-around plan.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

## 16. What should a PPL(H) pilot do before entering a TMZ?

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

## 17. What should a PPL(H) pilot do when operating close to a prohibited area?

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- a) remain clear unless specific authorisation is held.
- 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.

## 18. A true altitude is...

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- a) A pressure altitude corrected for non-standard temperature.
- b) An altitude above mean sea level corrected for non-standard temperature.
- c) A height above ground level corrected for non-standard temperature.
- d) A height above ground level corrected for non-standard pressure.

## 19. Which action best supports safe management of temperature correction?

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- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Use the actual or forecast temperature for performance planning.
- d) Ignore it when the helicopter has sufficient fuel.

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## 20. Which of the instruments listed below obtain their readings through pressure measurement?

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- a) Oil pressure gauge, fuel pressure gauge, manifold pressure gauge, altimeter, vertical speed indicator, airspeed indicator, suction gauge
- b) Oil pressure gauge, fuel pressure gauge, fuel quantity gauge, manifold pressure gauge, differential pressure gauge, altimeter
- c) Airspeed indicator, vertical speed indicator, altimeter, directional gyro, turn and bank coordinator, oil pressure gauge, fuel pressure gauge
- d) Airspeed indicator, vertical speed indicator, altimeter, magnetic compass, oil pressure gauge, fuel pressure gauge

## 21. Which action best supports safe management of passenger mass accuracy?

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- a) Use realistic masses and remain within approved limits.
- 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.

## 22. If the critical angle of attack is exceeded, the...

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- a) Transition point starts moving towards the airflow direction
- b) Boundary layer on the upper side of the rotor blade begins to separate
- c) Boundary layer on the lower side of the rotor blade begins to separate
- d) Laminar boundary layer turns into a turbulent boundary layer

## 23. Which are the advantages of sandwich structures?

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- a) Low weight, high stiffness, high stability, and high strength
- b) Good formability and high temperature durability
- c) High temperature durability and low weight
- d) High strength and good formability

## 24. Which statement about sterile cockpit discipline is correct?

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- a) It is used only in pressurised aircraft.
- b) It means turning off all avionics.
- c) It helps reduce distraction during critical phases.
- d) It is unrelated to safety.

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## 25. What is the correct way to transmit the call sign OE-JVK?

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

## 26. Which is the colour of runway end lights?

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- a) White
- b) Red
- c) Blue
- d) Green

## 27. The term "static pressure" is defined as pressure...

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- a) Sensed by the pitot tube.
- b) Resulting from orderly flow of air particles.
- c) Of undisturbed airflow.
- d) Inside the aircraft cabin.

## 28. What kind of helicopter needs a tail rotor?

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- a) Single-rotor helicopter with shaft drive
- b) Twin-rotor helicopter with counter-rotating main rotors
- c) Single-rotor helicopter with blade drive
- d) Twin-rotor autogyro with counter-rotating main rotors

## 29. 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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**30. During an approach the aircraft experiences wind shear with a decreasing tailwind. If the pilot does not make any correction, how do the approach path and the indicated airspeed (IAS) change?**

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- a) Path is lower, IAS increases
- b) Path is higher, IAS decreases
- c) Path is lower, IAS decreases
- d) Path is higher, IAS increases

**31. Which instrument can be affected by the hysteresis error?**

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

**32. What is a likely consequence of alternator failure?**

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- a) The altimeter automatically resets to standard pressure.
- b) battery power may be the remaining electrical source.
- c) The aircraft becomes exempt from maintenance requirements.
- d) The transponder changes to emergency code automatically.

**33. What is a likely consequence of blocked static port?**

---

- a) The altimeter automatically resets to standard pressure.
- b) altimeter and vertical speed indications may become unreliable.
- c) The aircraft becomes exempt from maintenance requirements.
- d) The transponder changes to emergency code automatically.

**34. Non-directional beacons (NDBs) transmit within which frequency band?**

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- a) Low frequency (LF) and medium frequency (MF)
- b) Very high frequency (VHF)
- c) Very low frequency (VLF) and low frequency (LF)
- d) High frequency (HF)

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## 35. The helicopter's stability is increased by...

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- a) Reducing the rotor RPM
- b) Attaching a stabilizer
- c) Pivoting the drag hinge
- d) Decreasing the rotor mass

## 36. Which statement about dew point spread is correct?

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- a) A small spread indicates air close to saturation.
- b) A large spread always means fog is forming.
- c) It is the same as wind chill.
- d) It measures cloud base in feet directly.

## 37. The hydraulic pump of the control system is driven by the...

---

- a) Main rotor gearbox.
- b) Additional aggregate.
- c) Engine.
- d) Alternator.

## 38. 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

## 39. The centre of gravity (CG) defines...

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- a) The point on the longitudinal axis or its extension from which the centres of gravity of all masses are referenced.
- b) The point through which the force of gravity is said to act on a mass.
- c) The distance from the datum to the position of a mass.
- d) The product of mass and balance arm.

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## **40. What is the best planning conclusion for showers and gusty wind after cold-front passage?**

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- a) Continue without checking updated weather.
- b) Assume VMC is guaranteed.
- c) expect unstable air and possible turbulence.
- d) Use QFE instead of weather information.

## **41. Which item from a ground station is normally acknowledged rather than read back verbatim?**

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

## **42. Urgency messages are messages...**

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- a) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight.
- b) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- c) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.
- d) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation.

## **43. Why is tail rotor drift important for a PPL(H) flight?**

---

- 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) Sideways force may require cyclic correction in hover.

## **44. A risk factor for decompression sickness is...**

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

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## 45. Which of the following options states a correct position report?

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- a) DEABC reaching "N"
- b) DEABC, "N", 2500 ft
- c) DEABC over "N" at 35
- d) DEABC over "N" in FL 2500 ft

## 46. 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.

## 47. Which statement about threat and error management is correct?

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- a) It is used only by air traffic control.
- b) It aims to anticipate threats, trap errors and manage undesired aircraft states.
- c) It is a maintenance inspection system.
- d) It applies only to commercial multi-crew operations.

## 48. Which action best supports safe management of fuel selector position?

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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) Confirm the selector is in the required position.

## 49. Which answer contains every state of water found in the atmosphere?

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- a) Liquid
- b) Liquid and solid
- c) Gaseous and liquid
- d) Liquid, solid, and gaseous

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

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

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

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

**52. What phrase is used by a pilot to inform the tower about a go-around?**

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- a) Pulling up
- b) Going around
- c) Approach canceled
- d) No landing

**53. Which statement about TAF is correct?**

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- a) It is a current runway inspection only.
- b) It is a transponder code.
- c) It is an aerodrome forecast.
- d) It is a fuel calculation method.

**54. What should a PPL(H) pilot do when planning to cross a prohibited area?**

---

- a) remain clear unless specific authorisation is held.
- 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.

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**55. Which approximate, geometrical form describes the shape of the Earth best for navigation systems?**

---

- a) Ellipsoid
- b) Sphere of ecliptical shape
- c) Flat plate
- d) Perfect sphere

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56. What is the distance from VOR Brünkendorf (BKD) ( $53^{\circ}02'N$ ,  $011^{\circ}33'E$ ) to Pritzwalk (EDBU) ( $53^{\circ}11'N$ ,  $12^{\circ}11'E$ )?



- a) 24 km
- b) 42 NM
- c) 24 NM
- d) 42 km

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## 57. What is the unit for electrical power?

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

## 58. 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.

## 59. Which human-factor point is most relevant? A pilot loses outside visual references in haze.

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- a) Instrument cross-check and avoiding visual illusions become critical.
- b) The event has no operational relevance.
- c) The correct response is to increase workload.
- d) The pilot should ignore symptoms until after landing.

## 60. Given: QTE: 229° VAR: 10° W The QDM equals...

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- a) 239°.
- b) 049°.
- c) 039°.
- d) 059°.

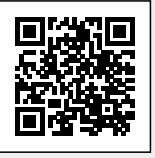
## 61. Which statement about carbon monoxide is correct?

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- a) It has a strong warning smell in all cases.
- b) It improves night vision.
- c) It binds strongly to haemoglobin and reduces oxygen transport.
- d) It is removed by switching on cabin heat.

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## 62. Why is reduced visibility important for a PPL(H) flight?

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- a) It is relevant only to airline transport operations.
- b) It reduces see-and-avoid capability and navigation confidence.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

## 63. The reason for a stall at a given pitch angle can be...

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- a) Constant peripheral speed and great vertical airflow through the rotor
- b) Smaller vertical airflow through the rotor and constant peripheral speed
- c) Smaller effective angle of attack and small peripheral speed
- d) Smaller frontal resistance and turbulent airflow

## 64. Given: QTE: 248° VAR: 10° W The QDR equals...

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- a) 078°
- b) 258°
- c) 238°
- d) 068°

## 65. Given the following information, what is the true altitude? (rounded to the nearest 50 ft) QNH: 983 hPa Altitude: FL 85 Outside Air Temperature: ISA - 10°

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- a) 7600 ft
- b) 7300 ft
- c) 7900 ft
- d) 9400 ft

## 66. What should be considered regarding ice formation during flight?

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- a) An increase in mass and drag and a significant lift reduction
- b) An increase in both drag and lift coefficient due to a mass increase
- c) An increase in mass and a decrease in drag
- d) An increase in mass and a reduced rate of descent

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## 67. Which statement about chip detectors is correct?

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- a) They measure fuel octane rating.
- b) They set the transponder code.
- c) They prevent carburettor icing.
- d) They can warn of metallic contamination in a gearbox or transmission system.

## 68. Carbon monoxide contamination in the cabin of a piston-engine helicopter can be caused by...

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- a) Generator failure
- b) Cracks or leaks in the cabin heating system
- c) Fuel or hydraulic fluid in the tanks
- d) Pitot icing

## 69. Which ratio corresponds to the rotor disc loading?

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- a) Rotor disc / helicopter mass
- b) Rotor thrust / rotor disc
- c) Rotor disc / rotor thrust
- d) Helicopter mass / rotor disc

## 70. During an approach the aircraft experiences wind shear with an increasing headwind. If the pilot does not make any correction, how do the approach path and the indicated airspeed (IAS) change?

---

- a) Path is higher, IAS increases
- b) Path is higher, IAS decreases
- c) Path is lower, IAS increases
- d) Path is lower, IAS decreases

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## Response Scheme

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

01: **B**

02: **B**

03: **A**

04: **C**

05: **B**

06: **C**

07: **B**

08: **B**

09: **D**

10: **B**

11: **D**

12: **A**

13: **D**

14: **C**

15: **B**

16: **B**

17: **A**

18: **B**

19: **C**

20: **A**

21: **A**

22: **B**

23: **A**

24: **C**

25: **D**

26: **B**

27: **C**

28: **A**

29: **D**

30: **D**

31: **B**

32: **B**

33: **B**

34: **A**

35: **B**

36: **A**

37: **A**

38: **C**

39: **B**

40: **C**

41: **D**

42: **B**

43: **D**

44: **D**

45: **B**

46: **A**

47: **B**

48: **D**

49: **D**

50: **B**

51: **A**

52: **B**

53: **C**

54: **A**

55: **A**

56: **C**

57: **B**

58: **A**

59: **A**

60: **D**

61: **C**

62: **B**

63: **B**

64: **B**

65: **B**

66: **A**

67: **D**

68: **B**

69: **D**

70: **A**

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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: _____		