

# Simulazione di Esame

Air Law - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

**01. What is the difference in latitude between A (12°53'30"N) and B (07°34'30"S)?**

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- a) 20°28'00"
- b) 05,19°
- c) 20,28°
- d) 05°19'00"

**02. The term "balance arm" in the context of a mass and balance calculation defines the...**

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- a) Distance from the datum to the center of gravity of a mass.
- b) Distance of a mass from the center of gravity.
- c) Point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- d) Point through which the force of gravity is said to act on a mass.

**03. Being intercepted by a military aircraft at daytime, what is the meaning of the following signal: A sudden heading change of 90 degrees or more and a pull-up of the aircraft without crossing the track of the intercepted aircraft?**

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- a) You are entering a restricted area, leave the airspace immediately
- b) You may continue your flight
- c) Follow me, i will bring you to the next suitable airfield
- d) Prepare for a safety landing, you have entered a prohibited area

**04. Which of the human senses is most influenced by hypoxia?**

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- a) The olfactory perception (smell)
- b) The tactile perception (sense of touch)
- c) The auditory perception (hearing)
- d) The visual perception (vision)

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## 05. What has to be done before entering a TMZ?

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- a) Switch on the transponder and activate mode A and C or mode S
- b) Request a clearance before entering
- c) Switch on the transponder, activate mode A, and squawk "IDENT"
- d) File a flight plan before the flight

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

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

## 07. The angle indicated by arrow number 1 shows the propeller's... See figure (AGK-011) D: Direction of air flow C: Chord line R: Direction of rotation (1,00 P.) Siehe Anlage 7

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- a) Angle of incidence.
- b) Angle of attack.
- c) Geometric wing twist
- d) Aerodynamic wing twist

## 08. How do lift and drag change when setting flaps to a lower position?

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- a) Lift increases, drag decreases
- b) Lift increases, drag increases
- c) Lift decreases, drag decreases
- d) Lift decreases, drag increases

## 09. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are TH and VAR?

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- a) TH: 194°. VAR: 004° W
- b) TH: 194°. VAR: 004° E
- c) TH: 172°. VAR: 004° W
- d) TH: 172°. VAR: 004° E

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## 10. What is the parallax error?

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

## 11. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance A = Arousal / Stress Siehe Anlage 1

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

## 12. What information can be obtained from satellite images?

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- a) Temperature and dew point of environmental air
- b) Turbulence and icing
- c) Flight visibility, ground visibility, and ground contact
- d) Overview of cloud covers and front lines

## 13. Which effect does a decreasing airspeed have on the induced drag during a horizontal and stable cruise flight?

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- a) The induced drag will increase
- b) The induced drag will collapse
- c) The induced drag will remain constant
- d) The induced drag will slightly decrease

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

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

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

**16. What could be a reason for changing the runway indicators at aerodromes (e.g. from runway 06 to runway 07)?**

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- a) The magnetic deviation of the runway location has changed
- b) The magnetic variation of the runway location has changed
- c) The direction of the approach path has changed
- d) The true direction of the runway alignment has changed

**17. With Central European Summer Time (CEST) given as UTC+2, what UTC time corresponds to 1600 CEST?**

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- a) 1600 UTC.
- b) 1500 UTC.
- c) 1700 UTC.
- d) 1400 UTC.

**18. A frequency of 119.500 MHz is correctly transmitted as...**

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- a) One one niner tousand decimal five zero.
- b) One one niner decimal five
- c) One one niner decimal five zero.
- d) One one niner decimal five zero zero.

**19. A pilot wants to take off on runway 36, the reported wind is 240 degrees, 12 knots. What is the value of the wind components acting on the aircraft on take-off and landing?**

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- a) Crosswind from the right 10.4 kt. Tailwind 6 kt.
- b) Crosswind from the left 10.4 kt. Tailwind 6 kt.
- c) Crosswind from the left 6 kt. Tailwind 10.4 kt.
- d) Crosswind from the right 6 kt. Headwind 10.4 kt.

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## 20. The distance between the center of gravity and the datum is called...

---

- a) Span width.
- b) Balance arm.
- c) Lever
- d) Torque

## 21. QFE is the...

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- a) Barometric pressure at a reference datum, typically the runway threshold of an airfield.
- b) Barometric pressure adjusted to sea level, using the international standard atmosphere (ISA).
- c) Magnetic bearing to a station
- d) Altitude above the reference pressure level 1013.25 hPa

## 22. Which information from a ground station does not require readback?

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

## 23. Which equipment is needed on board of an aircraft to receive signals from a non directional beacon (NDB)?

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- a) Course deviation indicator (CDI)
- b) Horizontal situation indicator (HSI)
- c) Automatic direction finder (ADF)
- d) Secondary surveillance radar (SSR)

## 24. What does the abbreviation "QTE" stand for?

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- a) Magnetic bearing to the station
- b) Magnetic bearing from the station
- c) True bearing from the station
- d) True bearing to the station

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**25. What should be considered regarding a scheduled flight over water, when land cannot be reached in case of an emergency landing?**

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- a) Transponder code 7600 has to be set during the whole flight
- b) Contact to the nearest ATC shall consist during the whole flight
- c) For all passengers there must be life jackets or lifeboats present
- d) The flight plan has to contain the exact waypoints

**26. How does air temperature change in ISA from MSL to approx. 10.000 m height?**

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- a) From +20° to -40°C
- b) From +30° to -40°C
- c) From -15° to 50°C
- d) From +15° to -50°C

**27. An acceleration during a straight horizontal flight can lead to the illusion of...**

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- a) A descent.
- b) A climb.
- c) An inverted flight.
- d) A bank.

**28. How is an air mass described when moving to Central Europe via the Russian continent during winter?**

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- a) Maritime tropical air
- b) Continental tropical air
- c) Continental polar air
- d) Maritime polar air

**29. Point A on the Earth's surface lies exactly on the parallel of latitude of 47°50'27"N. Which point is exactly 240 NM north of A?**

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- a) 43°50'27"N
- b) 53°50'27"N
- c) 49°50'27"N
- d) 51°50'27"N

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## 30. What is the call sign of the aerodrome control?

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- a) Tower
- b) Airfield
- c) Ground
- d) Control

## 31. How does the pilot prepare for a VFR flight over a large distance of water, when it is unlikely that land can be reached in case of an engine failure?

---

- a) File a flight plan including the exact way-points
- b) Be prepared to fly with transponder only
- c) Carry life vests or a life raft for all occupants.
- d) Maintain continuous radio contact with ATC.

## 32. Which Q-code is used for the true bearing to the station?

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

## 33. A wind shear is...

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

## 34. The majority of aviation accidents are caused by...

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- a) Technical failure
- b) Meteorological influences.
- c) Geographical influences.
- d) Human failure.

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## 35. What has to be considered with regard to the center of gravity position?

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- a) The center of gravity's position can only be determined during flight.
- b) Only correct loading can assure a correct and safe center of gravity position
- c) By moving the elevator trim tab, the center of gravity can be shifted into a correct position
- d) By moving the aileron trim tab, the center of gravity can be shifted into a correct position.

## 36. What is the meaning of the abbreviation "SERA"?

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- a) Selective Radar Altimeter
- b) Standardized European Rules of the Air
- c) Specialized Radar Approach
- d) Standard European Routes of the Air

## 37. During a flight at FL 80, the altimeter setting has to be...

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- a) 1030.25 hPa.
- b) 1013.25 hPa.
- c) Local QFE.
- d) Local QNH.

## 38. How does wind affect the take-off performance?

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- a) Tailwind aids the aircraft in overcoming the initial drag at the commencement of the take-off roll. The take-off distance will decrease
- b) Tailwind reduces the relative wind on the airfoil. The take-off distance will increase
- c) Headwind causes an increased airflow around the wing. The take-off distance will increase
- d) Headwind imposes an increased drag on the aircraft. The take-off distance will increase

## 39. What is checked by the marking in the attachment? See figure (AGK-006) (1,00 P.) Siehe Anlage 4

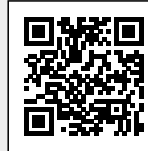
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- a) The tread wear of the tire
- b) The operating pressure of the carcass
- c) The correct position of the tire relative to the rim
- d) The correct position of the outer isolation layers



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## 40. What is the purpose of the secondary flight controls?

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- a) To constitute a backup system for the primary flight controls
- b) To improve the performance characteristics of an aircraft and relieve the pilot of excessive control forces
- c) To improve the turn characteristics of an aircraft in the low speed regime during approach and landing
- d) To enable the pilot to control the aircraft's movements about its three axes

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

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

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

## 43. During a flight in colder-than-ISA air the indicated altitude is...

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- a) Higher than the true altitude.
- b) Lower than the true altitude.
- c) Equal to the true altitude.
- d) Equal to the standard altitude.

## 44. What condition has to be met during a Special VFR flight?

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- a) Visual reference to the terrain
- b) Speed not above 115 kt IAS
- c) At least 500 m ground visibility
- d) A minimum distance to clouds of 2000 m

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**45. Which kind of engine is susceptible to carburettor fire?**

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- a) Piston engines
- b) Turbine engines
- c) Electric motors
- d) Turboprop engines

**46. When extending the flaps for landing at constant angle of attack, in which way does the lift coefficient change far before reaching the maximum lift coefficient?**

---

- a) It decreases
- b) It is not possible to define
- c) It increases
- d) It remains constant

**47. Two aircraft of the same type, same grossweight and same configuration fly at different airspeeds. Which aircraft will cause more severe wake turbulence?**

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- a) The aircraft flying at lower altitude.
- b) The aircraft flying at slower speed.
- c) The aircraft flying at higher speed.
- d) The aircraft flying at higher altitude.

**48. How can wind speed and wind direction be derived from surface weather charts?**

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- a) By alignment and distance of isobaric lines
- b) By alignment and distance of hypsometric lines
- c) By alignment of lines of warm- and cold fronts.
- d) By annotations from the text part of the chart

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**49. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?**

---

- a) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS
- b) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection is  $\pm 10^\circ$ .
- c) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection is  $\pm 10$  NM.
- d) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS.

**50. What is the function of the blood platelets (thrombocytes)?**

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

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

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

**52. What is the function of the red blood cells (erythrocytes)?**

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

**53. Carbon monoxide poisoning can be caused by...**

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- a) Little sleep.
- b) Alcohol
- c) Smoking.
- d) Unhealthy food.

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

---

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

**55. Which of the items on the attached checklist are related to the direct reading compass? See annex (NAV-004) (1,00 P.) Siehe Anlage 2**

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- a) "Turning Instruments" only
- b) "Gyro" and "Circuit Breaker"
- c) "Gyro" and "Turning Instruments"
- d) "Turning Instruments" and "Circuit Breaker"

**56. Which type of ice forms by very small water droplets and ice crystals hitting the front surfaces of an aircraft?**

---

- a) Clear ice
- b) Mixed ice
- c) Hoar frost
- d) Rime ice

**57. A technical fault requires an emergency off-field landing. Which steps, with respect to the pilot's operating handbook, are necessary?**

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- a) Inform air traffic control and request technical support, check the pilot's operating handbook for a reference on the matter and execute an emergency landing
- b) Reduce speed and configure the aircraft for landing in an attempt to gain time, declare an emergency, complete the applicable emergency procedure and execute an emergency landing.
- c) Locate a suitable landing area, plan the approach, complete the applicable emergency procedure, declare an emergency, start and concentrate on the approach in due time.
- d) Declare an emergency, complete the applicable emergency procedure, cover as much distance towards the airport as possible to be closer to the rescue forces.

**58. What impression may be caused when approaching a runway with an upslope?**

---

- a) A landing beside the centerline
- b) A hard landing
- c) An undershoot
- d) An overshoot

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**59. Where does the condensation water converge in the tank?**

---

- a) It floats on the fuel
- b) It floats on the fuel
- c) At the lowest position
- d) It is mixed with the fuel

**60. Air descending behind a mountain range is defined as...**

---

- a) Katabatic wind
- b) Convergent wind.
- c) Anabatic wind.
- d) Divergent wind.

**61. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PFP-024) (1,00 P.) Siehe Anlage 18**

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- a) Height 9500 ft
- b) Altitude 9500 ft MSL
- c) Altitude 9500 m MSL
- d) Flight Level 95

**62. For a take-off from runway 22 and a reported wind of 250°/10 kt, the longitudinal wind component equals...**

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- a) 9 kt tailwind
- b) 5 kt tailwind.
- c) 9 kt headwind.
- d) 9 kt headwind.

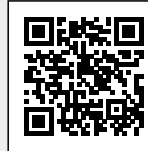
**63. Which are the different parts of the Aeronautical Information Publication (AIP)?**

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

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**64. A pilot receives a QDR of 135° from the VDF ground station. Where is the aircraft located in relation to the ground station?**

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- a) Northwest
- b) Southeast
- c) Southwest
- d) Northeast

**65. May an engine, which previously was on fire, be restarted?**

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- a) No, the risk of a reignition of the fire would be too high
- b) Yes, if the aircraft is flying at a safe altitude
- c) Yes, but only on the ground for the purpose of taxiing
- d) Yes, but only if the cause of the fire was a carburettor fire during engine start

**66. Which of the stated surfaces will reduce the wind speed most due to ground friction?**

---

- a) Flat land, deserted land, no vegetation
- b) Oceanic areas
- c) Mountainous areas, vegetation cover
- d) Flat land, lots of vegetation cover

**67. What is the required fuel to climb from FL 65 to FL 95 under the following conditions? Aircraft mass: 3000 lb. OAT in FL 65: -5° C OAT in FL 95: -15° C See annex (PFP-023) (1,00 P.) Siehe Anlage 14**

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- a) 1 GAL
- b) 2 GAL
- c) 6 GAL
- d) 3 GAL

**68. When do you expect wind shear?**

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- a) During an inversion
- b) In calm wind in cold weather
- c) During a summer day with calm winds
- d) When passing a warm front

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## 69. Which danger exists during engine start?

---

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

## 70. What is the correct phrase to begin a blind transmission?

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

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## Schema Risposte

Confronta le risposte fornite con il seguente schema e segna il tuo punteggio!

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