

# Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

**01. The "swiss cheese model" can be used to explain the...**

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

**02. What should be the first action in case of a cable fire during a flight?**

- a) Close the fuel valve
- b) Open the windows
- c) Turn off the master switch
- d) Open cabin ventiation

**03. The validity of a medical examination certificate class 2 for a 62 years old pilot is...**

- a) 60 Months.
- b) 48 Months.
- c) 24 Months
- d) 12 Months.

**04. What cloud type does the picture show? See figure (MET-002). Siehe Anlage 2**

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

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

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

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## 06. The speed VFE is defined as...

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- a) Stalling or minimum steady flight speed with the flaps retracted.
- b) Stalling or minimum steady flight speed with the flaps retracted.
- c) Stalling or minimum steady flight speed with the flaps extended.
- d) Maximum landing gear extended speed

## 07. Assume zero wind and an aircraft descending from 7500 ft to 1200 ft with an average true airspeed (TAS) during the descent of 105 kt. The rate of descent (ROD) equals 800 ft/min. The elapsed time will be...

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- a) 8 Min.
- b) 6 Min
- c) 15 Min
- d) 12 Min

## 08. Which danger exists during engine start?

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

## 09. The term "datum" with regard to a mass and balance calculation defines...

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- a) The point on the lateral axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- b) The point on the vertical axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- c) The point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- d) The distance from the reference plane to the center of gravity of an aircraft.

## 10. An aerodrome beacon (ABN) is a...

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- a) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground.
- b) Rotating beacon installed at the beginning of the final approach to indicate its location to aircraft pilots from the air.
- c) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.
- d) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.

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## 11. The change in pitch at a propeller blade from the root to the tip ensures...

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- a) That the most thrust is produced at the blade tip
- b) That the most thrust is produced at the blade root
- c) A nearly constant load by a constant effective angle of attack over the entire length of the blade.
- d) The largest possible angle of attack at the blade tip

## 12. Leaving a control frequency (except when reaching the final parking position)...

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- a) Is not mandatory to be reported
- b) Must be approved twice
- c) Must be approved.
- d) Must be reported.

## 13. What are the air masses that Central Europe is mainly influenced by?

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- a) Arctic and polar cold air
- b) Polar cold air and tropical warm air
- c) Equatorial and tropical warm air
- d) Tropical and arctic cold air

## 14. Clouds in high layers are referred to as...

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- a) Nimbo-
- b) Strato-
- c) Alto-
- d) Cirro-

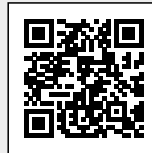
## 15. The transponder code in case of hi-jacking is...

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

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## 16. Which direction corresponds to 'compass north' (CN)?

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- a) The most northerly part of the magnetic compass in the aircraft, where the reading takes place
- b) The direction from an arbitrary point on Earth to the geographical North Pole
- c) The angle between the aircraft heading and magnetic north
- d) The direction to which the direct reading compass aligns due to earth's and aircraft's magnetic fields

## 17. A heading of 285 degrees is correctly transmitted as...

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- a) Two eight five.
- b) Two eight five hundred.
- c) Two hundred eight five.
- d) Two hundred eighty-five.

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

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

## 19. In order to improve the stall characteristics of an aircraft, the wing is twisted outwards (the angle of incidence varies spanwise). This is known as...

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- a) Aerodynamic washout
- b) Arrow shape
- c) V-form.
- d) Geometric washout

## 20. What pressure pattern can be observed during the passage of a polar front low?

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- a) Rising pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- b) Falling pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- c) Falling pressure in front of the warm front, constant pressure within the warm sector, falling pressure behind the cold front
- d) Rising pressure in front of the warm front, rising pressure within the warm sector, falling pressure behind the cold front

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**21. During an approach the aeroplane experiences a windshear with a decreasing tailwind. If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change?**

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

**22. Which Q-code is used for the true bearing from the station?**

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

**23. Anemic hypoxia can be caused by...**

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- a) Carbon monoxide poisoning.
- b) Low pressure
- c) High altitudes.
- d) Alcohol

**24. What pattern can be found at the stagnation point?**

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- a) The boundary layer starts separating on the upper surface of the profile
- b) The laminar boundary layer changes into a turbulent boundary layer
- c) All aerodynamic forces can be considered as attacking at this single point
- d) Streamlines are divided into airflow above and below the profile

**25. Which pressure is sensed by the Pitot tube?**

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- a) Cabin air pressure
- b) Total air pressure
- c) Dynamic air pressure
- d) Static air pressure

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## 26. Wet snow on a runway can lead to...

---

- a) An increase in lift.
- b) A decrease in lift.
- c) Reduced rolling resistance during take-off.
- d) Increased rolling resistance during take-off.

## 27. Air descending behind a mountain range is defined as...

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

## 28. A risk factor for decompression sickness is...

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

## 29. Loads must be adequately secured in order to...

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- a) Carry extra fuel
- b) Allow steep turns
- c) Avoid any centre of gravity (C.G.) movements
- d) Prevent excessive 'g'-loading during the landing flare

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

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

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## 31. What is the correct way to transmit the call sign HB-YKM?

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- a) Home Bravo Yuliett Kilo Mike
- b) Hotel Bravo Yankee Kilo Mike
- c) Hotel Bravo Yuliett Kilo Mikro
- d) Home Bravo Yankee Kilo Mikro

## 32. What is the purpose of the semi-circular rule?

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- a) To avoid collisions by reducing the probability of opposing traffic at the same altitude
- b) To fly without a filed flight plan in prescribed zones published in the AIP
- c) To allow safe climbing or descending in a holding pattern
- d) To avoid collisions by suspending turning manoeuvres

## 33. Wake turbulence is particularly strong...

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- a) When flying at high speeds
- b) When flying at high altitudes
- c) When flying at low speeds
- d) When flying at low altitudes

## 34. What is the correct frequency for an initial distress message?

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- a) Emergency frequency
- b) Current frequency
- c) FIS frequency
- d) Radar frequency

## 35. The term "ceiling" is defined as the...

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- a) Altitude of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.
- b) Height of the base of the lowest layer of clouds covering more than half of the sky below 10000 ft.
- c) Height of the base of the highest layer of clouds covering more than half of the sky below 20000 ft.
- d) Height of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.

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## 36. Which answer is correct with regard to separation in airspace "E"?

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- a) IFR traffic is separated only from VFR traffic
- b) VFR traffic is separated from VFR and IFR traffic
- c) VFR traffic is separated only from IFR traffic
- d) VFR traffic is not separated from any other traffic

## 37. During a stall, the lift...

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- a) During a stall, the lift...
- b) Increases and drag decreases.
- c) Increases and drag increases.
- d) Decreases and drag decreases.

## 38. Two engine-driven aircraft are flying on crossing courses at the same altitude. Which one has to divert?

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- a) The lighter one has to climb
- b) Both have to divert to the right
- c) The heavier one has to climb
- d) Both have to divert to the left

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

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

## 40. What factor may affect the top of cumulus clouds?

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- a) Relative humidity
- b) The spread
- c) The presence of an inversion layer
- d) The absolute humidity

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## 41. Temperatures will be given by meteorological aviation services in Europe in which unit?

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- a) Degrees Centigrade (° C)
- b) Kelvin
- c) Gpdam
- d) Degrees Fahrenheit

## 42. 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

## 43. What is the meaning of the phrase "Roger"?

---

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

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

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

## 45. Which of the following options is likely to produce large induced drag?

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- a) Large aspect ratio
- b) Tapered wings
- c) Small aspect ratio
- d) Low lift coefficients

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## 46. During an unaccelerated flight...

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- a) Drag equals lift and thrust equals gravity.
- b) Thrust equals the sum of drag and gravity.
- c) Thrust equals lift and drag equals gravity.
- d) Thrust equals drag and lift equals gravity.

## 47. The angle (alpha) shown in the figure is referred to as... See figure (PFA-003) DoF: direction of airflow (1,00 P.) Siehe Anlage 3

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- a) Lift angle.
- b) Angle of incidence
- c) Angle of inclination
- d) Angle of attack.

## 48. Two aircraft of the same type, same gross weight and same flap configuration fly with different speeds and altitude. Which aircraft will cause more wake turbulence?

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

## 49. A VOR radial corresponds to the...

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

## 50. Which part of the visual system is responsible for colour vision?

---

- a) Cones
- b) Rods
- c) Macula
- d) Blind spot

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## 51. The Pitot / static system is required to...

- a) Prevent potential static buildup on the aircraft.
- b) Correct the reading of the airspeed indicator to zero when the aircraft is static on the ground.
- c) Measure total and static air pressure.
- d) Prevent icing of the Pitot tube.

## 52. Assume two arbitrary points A and B on the same parallel of latitude, but not on the equator. Point A is located on 010°E and point B on 020°E. The rumb line distance between A and B is always...

- a) More than 600 NM.
- b) Less than 600 NM.
- c) More than 300 NM
- d) Less than 300 NM

## 53. Under which circumstances may a runway be considered to be contaminated?

- a) When more than 25 % of the runway surface area within the required length and width being used is covered by water, slush, snow or ice more than 3 mm deep
- b) When 75 % of the required runway length and width are covered by contaminants such as snow, frost, ice or sand
- c) When more than 50 % of the runway surface area within the required length and width being used is covered by water, slush, snow or ice more than 3 mm deep
- d) When more than 50 % of the required runway length and width are covered by contaminants such as snow, frost, ice or sand

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

- 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.

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## 55. Which statement is correct with regard to the polar axis of the Earth?

- a) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is perpendicular to the plane of the equator
- b) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is at an angle of 23.5° to the plane of the equator
- c) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is perpendicular to the plane of the equator
- d) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is at an angle of 66.5° to the plane of the equator

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

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

## 57. What is the meaning of this sign at an aerodrome? See figure (ALW-011) Siehe Anlage 3

- a) Landing prohibited for a longer period
- b) Glider flying is in progress
- c) Caution, manoeuvring area is poor
- d) After take-off and before landing all turns have to be made to the right

## 58. What is the meaning of the abbreviation "ARC"?

- a) Airworthiness Recurring Control
- b) Airspace Rulemaking Committee
- c) Airspace Restriction Criteria
- d) Airworthiness Review Certificate

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## 59. Which kinds of drag contribute to total drag?

---

- a) Form drag, skin-friction drag, interference drag
- b) Interference drag and parasite drag
- c) Induced drag, form drag, skin-friction drag
- d) Induced drag and parasite drag

## 60. In which mentioned situation is the total drag at its minimum?

---

- a) Induced drag is twice as much as parasite drag
- b) Parasite drag is twice as much as induced drag
- c) Parasite drag is equal to induced drag
- d) Induced drag is smaller than parasite drag

## 61. The height of the tropopause of the International Standard Atmosphere (ISA) is at...

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- a) 5500 ft.
- b) 11000 ft.
- c) 36000 ft.
- d) 48000 ft.

## 62. Which abbreviation is used for the term "obstacle"?

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

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

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

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**64. What is the mass of a "cube of air" with the edges 1 m long, at MSL according ISA?**

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- a) 1,225 kg
- b) 0,01225 kg
- c) 0,1225 kg
- d) 12,25 kg

**65. 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

**66. What danger is most imminent when an aircraft is hit by lightning?**

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- a) Rapid cabin depressurization and smoke in the cabin
- b) Surface overheat and damage to exposed aircraft parts
- c) Explosion of electrical equipment in the cockpit
- d) Disturbed radio communication, static noise signals

**67. What is a "PAPI" (Precision Approach Path Indicator)?**

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- a) A visual aid that provides guidance information to help a tower controller acquire and maintain the correct approach to an aerodrome or an airport
- b) A visual aid that provides guidance information to help a pilot acquire and maintain the correct glidepath to an aerodrome or an airport
- c) An instrumental aid that provides guidance information to help a pilot acquire and maintain the correct approach to an aerodrome or an airport
- d) A visual aid that provides guidance information to help a pilot acquire and maintain the correct departure track when departing from an aerodrome or an airport

**68. Given: TC: 179°; WCA: -12°; VAR: 004° E; DEV: +002° What are MH and MC?**

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- a) MH: 167°. MC: 175°.
- b) MH: 167°. MC: 161°.
- c) MH: 163°. MC: 175°.
- d) MH: 163°. MC: 161°.

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**69. Calculated take-off mass = 2300 lbs, calculated CG = 95.75 in, fuel burn = 170 lbs on station 87.00 in. Where is the CG situated after the landing?**

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- a) 97.39 in
- b) 96.45 in
- c) 94.11 in
- d) 96.57 in

**70. The sandwich structure consists of two...**

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- a) Thin layers and a light core material
- b) Thin layers and a heavy core material
- c) Thick layers and a heavy core material.
- d) Thick layers and a light core material.

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## Schema Risposte

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

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