

# Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

**01. Which point on the aerofoil is represented by number 3? See figure (PFA-009) (1,00 P.) Siehe Anlage 2**

- a) Separation point
- b) Center of pressure
- c) Stagnation point
- d) Transition point

**02. Which of the following options are possible SSR-Transponder modes?**

- a) A, C, S
- b) A, C, R
- c) B, C, V
- d) B, R, S

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

- 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.

**04. The right aileron deflects upwards, the left downwards. How does the aircraft react?**

- a) Rolling to the left, no yawing
- b) Rolling to the right, yawing to the right
- c) Rolling to the right, yawing to the left
- d) Rolling to the left, yawing to the right

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## 05. 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  $23.5^\circ$  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  $66.5^\circ$  to the plane of the equator

## 06. In motorplanes the stall warning is usually activated by a change of...

- a) The center of gravity
- b) The transition point.
- c) The center of pressure
- d) The center of pressure

## 07. What is the minimum age to obtain a private pilot license?

- a) 17 years
- b) 21 years
- c) 16 years
- d) 18 years

## 08. What information is provided in the general part (GEN) of the AIP?

- a) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts, restricted and dangerous airspaces
- b) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees
- c) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces
- d) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods

## 09. 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

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**10. Assume calm wind and an aircraft descending from 9000 ft to 1500 ft. The rate of descent (ROD) equals 1200 ft/min. The elapsed time will be...**

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

**11. Which statement about induced drag during the horizontal cruise flight is correct?**

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- a) Induced drag has a minimum at a certain speed and increases at higher as well as lower speeds
- b) Induced drag has a maximum at a certain speed and decreases at higher as well as lower speeds
- c) Induced drag increases with increasing airspeed
- d) Induced drag decreases with increasing airspeed

**12. What is the percentage of nitrogen in the atmosphere?**

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- a) 1 %
- b) 21 %
- c) 78 %
- d) 0.1 %

**13. Differential aileron deflection is used to...**

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- a) Keep the adverse yaw low
- b) Avoid a stall at low angles of attack
- c) Increase the rate of descent
- d) Reduce wake turbulence.

**14. The ratio of span and mean chord length is referred to as...**

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- a) Trapezium shape.
- b) Tapering
- c) Aspect ratio.
- d) Wing sweep.

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**15. 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.

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

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

**17. The angle of descent is defined as...**

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- a) The ratio between the change in height and the horizontal distance travelled within the same time, expressed in percent [%]
- b) The angle between a horizontal plane and the actual flight path, expressed in degrees [°].
- c) The ratio between the change in height and the horizontal distance distance travelled within the same time, expressed in degrees [°].
- d) The angle between a horizontal plane and the actual flight path, expressed in percent [%].

**18. Which part of the cycle of a four-stroke Otto engine can be seen in the attachment? See figure (AGK-008) (1,00 P.) Siehe Anlage 6**

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- a) Second stroke - compression
- b) Third stroke - power
- c) Fourth stroke - exhaust
- d) First stroke - induction

**19. 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

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**20. The pilot receives a QDR of 225° from the VDF ground station. Where is the aircraft located in relation to the ground station?**

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

**21. An aeroplane has a heading of 090°. The distance which has to be flown is 90 NM. After 45 NM the aeroplane is 4.5 NM north of the planned flight path. What is the corrected heading to reach the arrival aerodrome directly?**

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- a) 18° to the right
- b) 12° to the right
- c) 6° to the right
- d) 9° to the right

**22. 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.

**23. Which phenomenon may be expected at point 3 of the microburst? See figure (OPR-001) (1,00 P.) Siehe Anlage 1**

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- a) Decrease in airspeed
- b) Constant rate of descent
- c) Increase in airspeed
- d) Decrease in climb rate

**24. 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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## 25. Cylinder head temperature indication relates to...

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- a) All Cylinders.
- b) A random cylinder
- c) The critical cylinder
- d) The average of all cylinders.

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

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

## 27. Which of the items below may have an influence on the noise perceived by a person on the ground? 1) Engine power setting 2) Propeller revolutions per minute 3) Position of the landing gear 4) Flap position 5) Flight track 6) Height above ground 7) Flight rules

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- a) 1, 2, 3, 4, 5, 6
- b) 1, 5, 6
- c) 1, 5, 6, 7
- d) 3, 4, 5, 6, 7

## 28. 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.

## 29. (For this question, please use annex PFP-062) According ICAO, what symbol indicates a civil airport (not international airport) with paved runway? (2,00 P.) Siehe Anlage 23

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

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**30. Which statement about the airflow around an aerofoil is correct if the angle of attack decreases?**

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- a) The center of pressure moves aft
- b) The stagnation point remains constant
- c) The stagnation point moves down
- d) The center of pressure moves forward

**31. In straight and level flight with constant performance of the engine, the angle of attack at the wing is...**

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- a) Greater than in a climb.
- b) Greater than at take-off
- c) Smaller than in a descent
- d) Smaller than in a climb

**32. Smoke enters the cockpit during an engine fire. Which actions have to be taken immediately?**

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- a) Switching off the master switch and the ignition
- b) Switching off the heating and the ventilating system
- c) Switching off the pitot and front window heating
- d) Switching off the avionics and the cabin lighting

**33. 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

**34. What is the meaning of a flashing white light signal at a controlled aerodrome directed to an aircraft on ground?**

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- a) Cleared to taxi
- b) Clear the taxiway / runway
- c) Cleared for take-off
- d) Return to starting point

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

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

**36. The VDF range depends on...**

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- a) The aircraft's speed.
- b) The condition of the ionosphere.
- c) The range of the ground / surface wave.
- d) The aircraft's altitude.

**37. 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

**38. What chart shows areas of precipitation?**

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

**39. Which of the following messages has the highest priority?**

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- a) Turn left
- b) Request QDM
- c) QNH 1013
- d) Wind 300 degrees, 5 knots



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## 40. The center of gravity (CG) defines...

---

- a) The point on the longitudinal axis or its extension from which the centers 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.

## 41. What is the meaning of the 1:60 rule?

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- a) 6 NM lateral offset at 1° drift after 10 NM
- b) 60 NM lateral offset at 1° drift after 1 NM
- c) 1 NM lateral offset at 1° drift after 60 NM
- d) 10 NM lateral offset at 1° drift after 60 NM

## 42. The barometric altimeter indicates height above...

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- a) A selected reference pressure level.
- b) Mean sea level.
- c) Standard pressure 1013.25 hPa.
- d) Ground.

## 43. The term "aerodrome elevation" is defined as...

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- a) The highest point of the landing area.
- b) The lowest point of the landing area.
- c) The highest point of the apron.
- d) The average value of the height of the manoeuvring area

## 44. A landing conducted in response to circumstances forcing the aircraft to land is a / an...

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- a) Precautionary landing.
- b) Urgent landing.
- c) Emergency landing
- d) Field or out landing

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## 45. In what different ways can a risk be handled appropriately?

---

- a) Extrude, avoid, palliate, transfer
- b) Ignore, accept, transfer, extrude
- c) Avoid, reduce, transfer, accept
- d) Avoid, ignore, palliate, reduce

## 46. A deceleration during a straight horizontal flight can lead to the illusion of...

---

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

## 47. The bank in a two-minute turn (rate one turn) depends on the...

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- a) Weight
- b) Wind
- c) Load factor.
- d) TAS

## 48. 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.

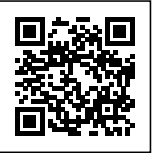
## 49. Which statement is correct with regard to the short-term memory?

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- a) It can store 10 ( $\pm 5$ ) items for 30 to 60 seconds
- b) It can store 7 ( $\pm 2$ ) items for 10 to 20 seconds
- c) It can store 3 ( $\pm 1$ ) items for 5 to 10 seconds
- d) It can store 5 ( $\pm 2$ ) items for 1 to 2 minutes

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## 50. How should the pilot react to an engaged stall warning?

---

- a) Pull the elevator, increase power
- b) Pull the elevator, decrease power
- c) Push the elevator, increase power
- d) Raise the nose to decrease airspeed

## 51. What minimum coverage with ice or snow must be given to call a runway "contaminated"?

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- a) 50 %
- b) 25 %
- c) 10 %
- d) 75 %

## 52. A construction made of frames and stringer with a supporting skin is called...

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- a) Honeycomb structure
- b) Grid construction.
- c) Wood- or mixed construction.
- d) Semi-monocoque construction.

## 53. What is the subject of ICAO Annex 1?

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- a) Air traffic services
- b) Flight crew licensing
- c) Rules of the air
- d) Operation of aircraft

## 54. A flight is called a "visual flight", if the...

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- a) Visibility in flight is more than 8 km.
- b) Flight is conducted under visual flight rules.
- c) Visibility in flight is more than 5 km.
- d) Flight is conducted in visual meteorological conditions.

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

---

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

**56. How does a balance tab move in relation to the flight control surface that it is coupled with?**

---

- a) In the opposite direction
- b) At an angle of 90°
- c) At an angle of 45°
- d) In the same direction

**57. An aircraft is following a true course (TC) of 040° at a constant true airspeed (TAS) of 180 kt. The wind vector is 350°/30 kt. The wind correction angle (WCA) equals...**

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

**58. Given: WCA: -012°; TH: 125°; MC: 139°; DEV: 002°E What are: TC, MH und CH?**

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- a) TC: 113°. MH: 127°. CH: 129°.
- b) TC: 137°. MH: 127°. CH: 125°.
- c) TC: 137°. MH: 139°. CH: 125°.
- d) TC: 113°. MH: 139°. CH: 129°.

**59. What does a cloud coverage of "BKN" mean in a METAR weather report?**

---

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

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**60. Which phrase is used by a pilot when he wants to fly through controlled airspace?**

---

- a) Apply
- b) Want
- c) Would like
- d) Request

**61. The load factor "n" describes the relationship between...**

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- a) Thrust and drag.
- b) Drag and lift.
- c) Lift and weight.
- d) Weight and thrust.

**62. What cloud type does the picture show? See figure (MET-004).Siehe Anlage 3**

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

**63. What is the purpose of the signal square at an aerodrome?**

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- a) It contains special symbols to indicate the conditions at the aerodrome visually to over-flying aircraft
- b) It is an illuminated area on which search and rescue and fire fighting vehicles are placed
- c) Aircraft taxi to this square to get light signals for taxi and take-off clearance
- d) It is a specially marked area to pick up or drop towing objects

**64. The altimeter has to be set to what value in order to show zero on ground?**

---

- a) QNH
- b) QNE
- c) QTE
- d) QFE

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

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- 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

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**66. What engines are commonly used with Touring Motor Gliders (TMG)?**

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- a) 4 Cylinder; 4 stroke
- b) 4 Cylinder 2 stroke
- c) 2 Cylinder Diesel
- d) 2 plate Wankel

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**67. 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

---

**68. 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

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**69. The aerodynamic rudder balance...**

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- a) Improves the rudder effectiveness.
- b) Reduces the control surfaces
- c) Reduces the control stick forces
- d) Delays the stall.

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**70. Immediately after lift-off, a microburst is entered inadvertently. Which action might avoid an unintentional descent?**

---

- a) Immediately after lift-off, a microburst is entered inadvertently. Which action might avoid an unintentional descent?
- b) Set maximum power, retract landing gear and flaps, pick up speed and perform a left or a right turn in an attempt to leave the area of the microburst on the shortest way
- c) Set maximum power, retract landing gear and flaps, increase pitch until attaining optimum climb speed
- d) Set maximum power, maintain present aircraft configuration, pick up speed in an attempt to leave the area of the microburst as fast as possible

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## Schema Risposte

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

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