

# Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

**01. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 360° to a heading of 270°. At approximately which indication of the magnetic compass should the turn be terminated?**

- a) 300°
- b) 360°
- c) 240°
- d) 270°

**02. How can you obtain meteorological information concerning airports during a cross-country flight?**

- a) VOLMET
- b) GAMET
- c) METAR
- d) AIRMET

**03. What is the function of the white blood cells (leucocytes)?**

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

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

- 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

**05. Which statement about a rhumb line is correct?**

- a) A rhumb line cuts each meridian at the same angle.
- b) The center of a complete cycle of a rhumb line is always the Earth's center.
- c) The shortest track between two points along the Earth's surface follows a rhumb line
- d) A rhumb line is a great circle intersecting the the equator with 45° angle.

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## 06. The saturated adiabatic lapse rate is...

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- a) Lower than the dry adiabatic lapse rate
- b) Proportional to the dry adiabatic lapse rate
- c) Higher than the dry adiabatic lapse rate.
- d) Equal to the dry adiabatic lapse rate.

## 07. What is the meaning of the abbreviation "TRA"? (

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

## 08. What effects typically result from propeller icing?

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- a) Reduced power output, decreasing RPM
- b) Increased power output, decreasing RPM.
- c) Increased power output, increasing RPM.
- d) Reduced power output, increasing RPM.

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

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

## 10. The altimeter can be checked on the ground by setting...

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- a) QFE and comparing the indication with the airfield elevation.
- b) QNH and comparing the indication with the airfield elevation.
- c) QNE and checking that the indication shows zero on the ground.
- d) QFF and comparing the indication with the airfield elevation.

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**11. 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

**12. In what cases is visibility transmitted in kilometers?**

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

**13. When increasing the airflow speed by a factor of 2 while keeping all other parameters constant, how does the parasite drag change approximately?**

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- a) It decreases by a factor of 2
- b) It increases by a factor of 2
- c) It decreases by a factor of 4
- d) It increases by a factor of 4

**14. 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

**15. How should an Otto engine be shut down?**

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- a) By completely leaning the mixture
- b) By moving the propeller to the feathered position
- c) By closing the throttle lever completely
- d) By shutting down the generator

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## 16. Under what conditions may class D airspace be entered with a radio failure?

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- a) Approval has been granted before
- b) There are other aircraft in the aerodrome circuit
- c) It is the aerodrome of departure
- d) It is the destination aerodrome

## 17. What does the term "confirmation bias" mean?

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- a) The feedback loop in a closed communication
- b) The preference to find arguments to prove the own mental model
- c) The bias to confirm each radio call
- d) The critical check of ambiguous situations in flight

## 18. The critical angle of attack...

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- a) Changes with increasing weight.
- b) Decreases with forward center of gravity position
- c) Is independent of the weight.
- d) Increases with backward center of gravity position.

## 19. Wake turbulence is particularly strong...

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- a) At a high aeroplane weight.
- b) When flying with high thrust.
- c) When flying with low thrust.
- d) At a low aeroplane weight.

## 20. 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.

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## 21. Which cylinder arrangement is commonly used on small aircrafts and motor gliders?

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- a) Horizontally opposed engine
- b) Radial engine
- c) In-line engine
- d) V-type engine

## 22. The position of the center of gravity equals... See figure (PFP-052e) (1,00 P.) Siehe Anlage 1

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- a) 147.5 in.
- b) 145.7 in.
- c) 142 in.
- d) 137.5 in

## 23. 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

## 24. What conditions are mandatory for the formation of thermal thunderstorms?

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- a) Conditionally unstable atmosphere, low temperature and low humidity
- b) Absolutely stable atmosphere, high temperature and high humidity
- c) Absolutely stable atmosphere, high temperature and low humidity
- d) Conditionally unstable atmosphere, high temperature and high humidit

## 25. 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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## 26. What is the reason for static dischargers on aircraft?

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- a) To ensure grounding during refueling
- b) To discharge static charging during flight
- c) To eliminate electrical interferences during intensive radio traffic
- d) To improve the quality of radio transmission in high altitudes

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

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

## 28. 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) +5°
- b) + 11°
- c) - 7°
- d) - 9°

## 29. What is the correct term for the system which, among others, controls breathing, digestion, and heart frequency?

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- a) Critical nervous system
- b) Autonomic nervous system
- c) Automatical nervous system
- d) Compliant nervous system

## 30. A flight level is a...

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- a) Pressure altitude.
- b) Density altitude
- c) Altitude above ground
- d) True altitude.

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

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

## 32. How can the pilot of an engine-driven aircraft minimise the noise emission during descent and approach?

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- a) How can the pilot of an engine-driven aircraft minimise the noise emission during descent and approach?
- b) Descent and approach in landing configuration while maintaining a descent angle of 3°, direct approach whenever possible
- c) Low approach with minimum power setting, late configuration and steep approach, adherence to established arrival routes
- d) High approach with minimum power setting, late descent, late configuration, adherence to established arrival routes

## 33. Which factor can lead to human error?

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- a) Double check of relevant actions
- b) Proper use of checklists
- c) To be doubtful if something looks unclear or ambiguous
- d) The bias to see what we expect to see

## 34. It is possible that the surface wind speed at an airport is reduced due to friction. When a surface area with a minor tailwind condition is left during the initial climb, the pilot might expect...

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- a) An increase in airspeed and rate of climb due to decreasing tailwind
- b) A decrease in airspeed and climb performance due to decreasing tailwind
- c) An increase in airspeed and rate of climb due to increasing tailwind.
- d) A decrease in airspeed and rate of climb due to increasing tailwind.

## 35. What does the abbreviation "QDR" stand for?

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

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**36. The term "static pressure" is defined as pressure...**

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

**37. Which of the following options does NOT stimulate motion sickness (disorientation)?**

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- a) Head movements during turns
- b) Flying under the influence of alcohol
- c) Non-accelerated straight and level flight
- d) Turbulence in level flight

**38. What is the meaning of the illustrated ground signal as shown in the signal area of an aerodrome? See figure (ALW-012) Siehe Anlage 4**

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- a) Caution, manoeuvring area is poor
- b) Prohibition on landing for a longer period
- c) After take-off and before landing all turns have to be made to the right
- d) Ground movement restricted to hard surfaces

**39. What is the meaning of the abbreviation "ARC"?**

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

**40. Moderate to severe turbulence has to be expected...**

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- a) With the appearance of extended low stratus clouds (high fog)
- b) Overhead unbroken cloud layers.
- c) Below thick cloud layers on the windward side of a mountain range
- d) On the lee side of a mountain range when rotor clouds are present.

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**41. Which maximum rate of climb can the aircraft reach at 9000 ft pressure altitude and OAT 12° C? See annex (PFP-011) (1,00 P.) Siehe Anlage 11**

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- a) 200 ft/min
- b) 250 ft/min
- c) 350 ft/min
- d) 300 ft/min

**42. What is the status of the rules and procedures created by the EASA? (e.g. Part-SFCL, Part-MED)**

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- a) They have the same status as ICAO Annexes
- b) Only after a ratification by individual EU member states they are legally binding
- c) They are not legally binding, they only serve as a guide
- d) They are part of the EU regulation and legally binding to all EU member states

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

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- a) Fuel or hydraulic fluids.
- b) Generator failure.
- c) Cracks in the heat exchanger.
- d) Pitot icing.

**44. Given: True course from A to B: 283°. Ground distance: 75 NM. TAS: 105 kt. Headwind component: 12 kt. Estimated time of departure (ETD): 1242 UTC. The estimated time of arrival (ETA) is...**

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- a) 1430 UTC
- b) 1356 UTC
- c) 1330 UTC
- d) 1320 UTC

**45. Which stage of a thunderstorm is dominated by updrafts?**

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- a) Dissipating stage
- b) Upwind stage
- c) Mature stage
- d) Cumulus stage

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**46. The DME reading is a...**

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- a) Ground distance.
- b) Air range
- c) Radial distance.
- d) Slant range.

**47. The term 'isogonal' or 'isogonic line' is defined as a line on an aeronautical chart, connecting all points with the same value of...**

---

- a) Inclination
- b) Deviation
- c) Heading
- d) Variation

**48. 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

**49. What is meant by "inversion layer"?**

---

- a) An atmospheric layer where temperature decreases with increasing height
- b) A boundary area between two other layers within the atmosphere
- c) An atmospheric layer with constant temperature with increasing height
- d) An atmospheric layer where temperature increases with increasing height

**50. Which wing configuration is shown in the attachment? See figure (AGK-002) (1,00 P.) Siehe Anlage 1**

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- a) Strut-braced high wing
- b) High wing
- c) Mid wing
- d) Low wing

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**51. What distance corresponds to one degree difference in latitude along any degree of longitude?**

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- a) 1 NM
- b) 60 NM
- c) 30 NM
- d) 60 km

**52. The altimeter's reference scale is set to airfield pressure (QFE). What indication is shown during the flight?**

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- a) Pressure altitude
- b) Height above airfield
- c) Airfield elevation
- d) Altitude above MSL

**53. 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.

**54. After take-off an aeroplane gets into a wind shear with decreasing headwind. As a result...**

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- a) The aeroplane flies above the estimated climb path
- b) The true airspeed (TAS) will increase
- c) The ground speed (GS) will decrease
- d) The aeroplane flies below the estimated climb path.

**55. What is the meaning of a flashing red light signal at a controlled aerodrome directed to an aircraft in flight?**

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- a) Airport unsafe, do not land
- b) Return for landing, followed by steady green at the appropriate time
- c) Cleared to land
- d) Give way to other aircraft and continue circling

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**56. What is shown on the printed sign? See figure (ALW-019) Siehe Anlage 1**

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- a) Point A on a taxiway
- b) Part A of the runway
- c) Taxiway A
- d) Parking position A

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**57. Mountain side updrafts can be intensified by ...**

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- a) Solar irradiation on the windward side
- b) Solar irradiation on the lee side
- c) By warming of upper atmospheric layers
- d) Thermal radiation of the windward side during the night

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

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- a) Performance section of the pilot's operating handbook of this particular aircraft
- b) Mass and balance section of the pilot's operating handbook of this particular aircraft
- c) Documentation of the annual inspection.
- d) Certificate of airworthiness.

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**59. What describes "wing loading"?**

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- a) Drag per wing area
- b) Drag per weight
- c) Wing area per weight
- d) Weight per wing area

---

**60. What weather conditions in Central Europe are typically found in high pressure areas during summer?**

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- a) Large isobar spacing with calm winds, formation of local wind systems
- b) Large isobar spacing with strong prevailing westerly winds
- c) Small isobar spacing with calm winds, formation of local wind systems
- d) Small isobar spacing with strong prevailing northerly winds

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## 61. What is meant by "ground effect"?

---

- a) Increase of lift and increase of induced drag close to the ground
- b) Decrease of lift and increase of induced drag close to the ground
- c) Decrease of lift and decrease of induced drag close to the ground
- d) Increase of lift and decrease of induced drag close to the ground

## 62. Point number 5 in the figure indicates which flight state? See figure (PFA-008) (1,00 P.) Siehe Anlage 5

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- a) Best gliding angle
- b) Slow flight
- c) Stall
- d) Inverted flight

## 63. "Longitudinal stability" is referred to as stability around which axis?

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- a) Propeller axis
- b) Vertical axis
- c) Longitudinal axis
- d) Lateral axis

## 64. 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

## 65. What devices can be affected by a failure of the electrical system in a helicopter?

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- a) Fuel quantity indication, radio equipment and altimeter
- b) Radio equipment, navigation equipment and magnetic compass
- c) Airspeed indicator, altimeter and artificial horizon
- d) Radio equipment, navigation equipment and gyros

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**66. What is the correct term for an involuntary and stereotypical reaction of an organism to the stimulation of a receptor?**

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- a) Reduction
- b) Virulence
- c) Coherence
- d) Reflex

**67. 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

**68. The barometric altimeter with QNH setting indicates...**

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- a) Height above standard pressure 1013.25 hPa
- b) Height above the pressure level at airfield elevation
- c) True altitude above MSL.
- d) Height above MSL.

**69. An aircraft is flying with an indicated airspeed (IAS) of 150 kt at 8000 ft MSL. According to the rule of thumb, the true airspeed (TAS) equals...**

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- a) 174 kt.
- b) 150 kt
- c) 142 kt.
- d) 208 kt

**70. Deflecting the rudder to the left causes...**

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- a) Pitching of the aircraft to the right.
- b) Yawing of the aircraft to the right
- c) Yawing of the aircraft to the left.
- d) Pitching of the aircraft to the left

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## Schema Risposte

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

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