

# Simulazione di Esame

Performance and flight planning - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

## 01. Which of the following is responsible for the blood coagulation?

- a) Red blood cells (erythrocytes)
- b) Capillaries of the arteries
- c) White blood cells (leucocytes)
- d) Blood plates (thrombocytes)

## 02. 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

## 03. The symbol labeled (3) as shown in the picture is a / an... See figure (MET-005) (1,00 P.) Siehe Anlage 4

- a) Front aloft.
- b) Warm front.
- c) Cold front.
- d) Occlusion

## 04. A transponder with the ability to send the current pressure level is a...

- a) Pressure-decoder.
- b) Mode C or S transponder
- c) Mode A transponder.
- d) Transponder approved for airspace "B".

## 05. Why is it dangerous to pump the throttle for engine start in cold weather?

- a) It may cause a carburettor fire
- b) Carburettor icing can occur
- c) The engine might start with not enough power
- d) The oil will become diluted

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**06. What extinguishing agent is the least suitable for an aircraft fire?**

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- a) Powder
- b) Halon
- c) Water
- d) Foam

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

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

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**08. 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.

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**09. A gyro which is rotating in space responds to forces being applied to it by an evasive movement...**

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- a) At an angle of 45° to the force being applied.
- b) In a northern direction.
- c) At an angle of 90° to the force being applied.
- d) At an angle of 180° to the force being applied

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**10. An aircraft travels 100 km in 56 minutes. The ground speed (GS) equals...**

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- a) 58 km/h
- b) 198 kt
- c) 93 kt.
- d) 107 km/h.

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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

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**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.

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**13. 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.

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**14. Which weather phenomenon is typically associated with wind shear?**

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- a) Fog
- b) Invernal warm front.
- c) Thunderstorms
- d) Stable high pressure areas.

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**15. Which danger exists during engine start?**

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

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## 16. What does the abbreviation "FIS" stand for?

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- a) Flashing information service
- b) Flight information system
- c) Flashing information system
- d) Flight information service

## 17. The empty weight and the corresponding center of gravity (CG) of an aircraft are initially determined...

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- a) By weighing
- b) Through data provided by the aircraft manufacturer.
- c) By calculation.
- d) For one aircraft of a type only, since all aircraft of the same type have the same mass and CG position.

## 18. What is the call sign of the flight information service?

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- a) Info
- b) Advice
- c) Flight information
- d) Information

## 19. The distance between two airports is 220 NM. On an aeronautical navigation chart the pilot measures 40.7 cm for this distance. The chart scale is...

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- a) 1 : 250000.
- b) 1 : 2000000.
- c) 1 : 500000
- d) 1 : 1000000.

## 20. How can a pilot confirm a search and rescue signal on ground in flight?

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- a) Rock the wings
- b) Push the rudder in both directions multiple times
- c) Fly in a parabolic flight path multiple times
- d) Deploy and retract the landing flaps multiple times

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## 21. 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

## 22. Which statement about lift and angle of attack is correct?

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- a) Too large angles of attack can lead to an exponential increase in lift
- b) Increasing the angle of attack results in less lift being generated by the aerofoil
- c) Increasing the angle of attack too far may result in a loss of lift and an airflow separation
- d) Decreasing the angle of attack results in more drag being generated by the aerofoil

## 23. Which light colour advises the pilot to the condition "corrective action may be required in the future"?

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- a) Amber (orange)
- b) Red
- c) Blue
- d) Green

## 24. Where does the inclination reach its lowest value?

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- a) At the magnetic equator
- b) At the magnetic poles
- c) At the geographic equator
- d) At the geographic poles

## 25. With regard to flaps, which of the following options provides a lift-increasing effect?

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- a) With regard to flaps, which of the following options provides a lift-increasing effect?
- b) Increasing the aerofoil camber
- c) Decreasing the form drag
- d) Lowering the induced drag

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**26. An aircraft is following a true course (TC) of 220° at a constant TAS of 220 kt. The wind vector is 270°/50 kt. The ground speed (GS) equals...**

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- a) 170 kt
- b) 185 kt.
- c) 255 kt.
- d) 135 kt.

**27. Distress messages contain...**

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- a) Information concerning urgent spare parts which are required for a continuation of flight and which have to be ordered in advance.
- b) Information concerning the apron personell and which imply an imminent danger to landing aircraft.
- c) Information concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight
- d) Information concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.

**28. "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

**29. In what case is the pilot allowed to abbreviate the call sign of his aircraft?**

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- a) After the ground station has used the abbreviation
- b) Within controlled airspace
- c) If there is little traffic in the traffic circuit
- d) After passing the first reporting point

**30. What happens to the true airspeed at a constant indicated airspeed during a climb?**

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- a) It decreases
- b) It increases
- c) It remains constant below 5000 ft
- d) It remains constant above 5000 ft

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## 31. With other factors remaining constant, decreasing temperature results in...

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- a) Decreasing spread and decreasing relative humidity.
- b) Increasing spread and decreasing relative humidity.
- c) Increasing spread and increasing relative humidity.
- d) Decreasing spread and increasing relative humidity.

## 32. Winds blowing downhill are defined as...

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- a) Anabatic winds.
- b) Katabatic winds.
- c) Convergent winds.
- d) Subsident winds.

## 33. A pilot wants to take off on runway 36, the reported wind is 240 degrees 12 knots. What are 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 right 6 kt. Headwind 10.4 kt.
- c) Crosswind from the left 10.4 kt. Tailwind 6 kt.
- d) Crosswind from the left 6 kt. Tailwind 10.4 kt.

## 34. Which weather chart shows the actual air pressure as in MSL along with pressure centers and fronts?

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- a) Hypsometric chart
- b) Surface weather chart
- c) Prognostic chart
- d) Wind chart

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

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

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**36. 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°.

**37. 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.

**38. Which conditions are likely for the formation of advection fog?**

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- a) Cold, humid air moves over a warm ocean
- b) Warm, humid air moves over a cold surface
- c) Warm, humid air cools during a cloudy night
- d) Humidity evaporates from warm, humid ground into cold air

**39. 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 proof the own mental model
- c) The bias to confirm each radio call
- d) The critical check of ambiguous situations in flight

**40. What radio navigation aid can be received with the attached aerial? See figure (NAV-017) (1,00 P.) Siehe Anlage 5**

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- a) VOR
- b) DME
- c) NDB
- d) VDF



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## 41. What is meant by the term "terrestrial navigation"?

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- a) Orientation by ground celestial object during visual flight
- b) Orientation by ground features during visual flight
- c) Orientation by GPS during visual flight
- d) Orientation by instrument readings during visual flight

## 42. During ignition check the ignition is switched to OFF for a short moment and subsequently back to BOTH. What happens to the RPM if the ignition system is properly grounded?

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- a) The RPM increases once switched to OFF and resumes a value below the previous one when switched back to BOTH
- b) The RPM decreases once switched to OFF and resumes the previous value when switched back to BOTH
- c) The RPM increases once switched to OFF and resumes the previous value when switched back to BOTH
- d) The RPM decreases once switched to OFF and resumes a value below the previous one when switched back to BOTH

## 43. Which of the following symptoms may indicate hypoxia?

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- a) Joint pain in knees and feet
- b) Muscle cramps in the upper body area
- c) Blue discolouration of lips and fingernails
- d) Blue marks all over the body

## 44. What pressure pattern may result from cold-air inflow in high tropospheric layers?

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- a) Formation of a low in the upper troposphere
- b) Formation of a high in the upper troposphere
- c) Formation of a large ground low
- d) Alternating pressure

## 45. What phrase is used by a pilot if a transmission is to be answered with "yes"?

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- a) Roger
- b) Yes
- c) Affirm
- d) Affirmative

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## 46. What has to be considered when entering an RMZ?

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- a) To permanently monitor the radio and if possible to establish radio contact
- b) To obtain a clearance from the local aviation authority
- c) The transponder has to be switched on Mode C and squawk 7000
- d) To obtain a clearance to enter this area

## 47. Which of the following options states the working principle of a vertical speed indicator?

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- a) Measuring the present static air pressure and comparing it to the static air pressure inside a reservoir
- b) Total air pressure is measured and compared to static pressure
- c) Measuring the vertical acceleration through the displacement of a gimbal-mounted mass
- d) Static air pressure is measured and compared against a vacuum

## 48. All aerodynamic forces can be considered to act on a single point. This point is called...

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- a) Center of gravity.
- b) Center of pressure.
- c) Lift point.
- d) Transition point.

## 49. What is the mean height of the tropopause according to ISA (ICAO Standard Atmosphere)?

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- a) 18000 ft
- b) 11000 ft
- c) 11000 m
- d) 36000 m

## 50. 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

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## 51. 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

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

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

## 53. 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

## 54. The aircraft is on radial... See annex (NAV-024) (1,00 P.) Siehe Anlage 8

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- a) 066°.
- b) 234°.
- c) 060°.
- d) 246°.

## 55. What is the correct way of acknowledging the instruction "Call Hamburg Tower on 121.275"?

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- a) Call 121.275
- b) Call tower
- c) 125.35.00
- d) Call tower on 121.275

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**56. In what case is visibility transmitted in meters?**

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

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**57. What structural item provides directional stability to an airplane?**

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- a) Differential aileron deflection
- b) Large vertical tail
- c) Wing dihedral
- d) Large elevator

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**58. The possession of a european PPL(A) entitles the holder to...**

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- a) Act as pilot on a commercial flight when there are at most 4 people on board.
- b) Act as pilot in commercial and non-commercial flights with single engine aircraft.
- c) Act as PIC, and only for flights in aircraft with a MTOW of maximum 2000 kg a compensation may be obtained.
- d) Act as PIC on non-commercial flights without compensation as well as to receive compensation as a flight instructor.

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**59. In which outside air temperature is icing most likely?**

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- a) Between -5° C and +20° C
- b) Between -10° C and +10° C
- c) Between -20° C and +5° C
- d) Between -15° C and 0° C

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**60. Rotation around the lateral axis is called...**

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- a) Rolling
- b) Stalling
- c) Yawing
- d) Pitching

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## 61. 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

## 62. What is the period of validity of a private pilot license (PPL)?

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- a) Unlimited
- b) 24 months
- c) 48 months
- d) 60 months

## 63. Differential aileron deflection is used to...

---

- 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.

## 64. Which of the following frequencies is designated for VHF voice communication?

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- a) 118.75 kHz
- b) 327.25 MHz
- c) 327.25 kHz
- d) 118.75 MHz

## 65. The term "center of gravity" is defined as...

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- a) The heaviest point on an aeroplane.
- b) Half the distance between the neutral point and the datum line.
- c) Another designation for the neutral point
- d) The point at which the total mass of the aeroplane is considered to act.

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**66. According to the aeronautical chart, Friesach/Hirt (LOKH) has a 707 m grass runway. Prevailing runway is 17 due to a surface wind of 18010KT. The required landing distance for your aircraft under present conditions is 550 m. Considering the NOTAM below, is it safe to plan LOKH as an alternate aerodrome? See figure (PFP-026) (1,00 P.) Siehe Anlage 17**

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- a) Don't know
- b) Maybe
- c) Yes
- d) No

**67. The distance measuring equipment (DME) determines the distance based on the principle of...**

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- a) Time measurement.
- b) Doppler.
- c) Laser measurement.
- d) Phase comparison.

**68. 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

**69. 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?**

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- 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.

**70. 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

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## Schema Risposte

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

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