

# Simulazione di Esame

Human factor and limitations - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

## 01. Under which conditions "back side weather" ("Rückseitenwetter") can be expected?

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- a) Before passing of an occlusion
- b) During Foehn at the lee side
- c) After passing of a warm front
- d) After passing of a cold front

## 02. 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

## 03. Winds blowing uphill are defined as...

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

## 04. What needs to be observed in conjunction with overheated brakes?

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- a) The affected brakes need to be cooled down with halon
- b) The affected tyres may burst in axial direction
- c) The affected tyres may burst in radial direction or direction of rotation
- d) The wheel fairing shall be taken off to increase the cooldown

## 05. 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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**06. Wings level after a longer period of turning can lead to the impression of...**

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- a) Starting a descent.
- b) Starting a climb.
- c) Steady turning in the same direction as before
- d) Turning into the opposite direction

**07. 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.

**08. 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

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

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- 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

**10. What is the minimum age to start a private pilot training at a flight school?**

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

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## 11. Electronic devices on board of an aeroplane have influence on the...

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- a) Turn coordinator
- b) Airspeed indicator.
- c) Artificial horizon.
- d) Direct reading compass

## 12. What is the meaning of a flashing green light signal at a controlled aerodrome directed to an aircraft on ground?

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- a) Cleared to taxi
- b) Return to starting point
- c) Land at this airport and proceed to the apron
- d) Cleared for take-off

## 13. Which answer states a risk factor for diabetes?

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- a) Overweight
- b) Smoking
- c) Sleep deficiency
- d) Alcohol consumption

## 14. Which answer is correct concerning stress?

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- a) Stress can occur if there seems to be no solution for a given problem
- b) Training and experience have no influence on the occurrence of stress
- c) Stress and its different symptoms are irrelevant for flight safety
- d) Everybody reacts to stress in the same manner

## 15. The angle of attack is the angle between...

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- a) The undisturbed airflow and the longitudinal axis of an aeroplane.
- b) The chord line and the longitudinal axis of an aeroplane
- c) The chord line and the oncoming airflow
- d) The wing and the fuselage of an aeroplane.

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## 16. 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

## 17. What is the approximate speed of electromagnetic wave propagation?

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- a) 123000 m/s
- b) 300000 km/s
- c) 123000 km/s
- d) 300000 m/s

## 18. In a METAR, "heavy rain" is designated by the identifier...

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- a) RA
- b) +SHRA
- c) SHRA
- d) +RA

## 19. 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

## 20. In which situation is it NOT possible to achieve a pressure compensation between the middle ear and the environment?

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- a) During a light and slow climb
- b) All windows are completely closed
- c) Breathing takes place using the mouth only
- d) The eustachien tube is blocked

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**21. What danger is most imminent during an approach to an airfield situated in a valley, with strong wind aloft blowing perpendicular to the mountain ridge?**

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- a) Reduced visibility, maybe loss of sight to the airfield during final approach
- b) Formation of medium to heavy clear ice on all aircraft surfaces
- c) Heavy downdrafts within rainfall areas below thunderstorm clouds
- d) Wind shear during descent, wind direction may change by 180°

**22. The speed  $V_y$  is defined as...**

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- a) Best speed of climb.
- b) Best angle of climb.
- c) Best distance of climb.
- d) Best distance of climb.

**23. 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.

**24. 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

**25. Wake turbulences develop during take-off just as the aeroplane...**

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- a) Reaches an altitude of 15 ft.
- b) Lifts off with the main gear.
- c) Lifts off with the front gear.
- d) Accelerates

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**26. 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.

**27. 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

**28. Rudder deflections result in a turn of the aeroplane around the...**

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- a) Rudder axis
- b) Lateral axis
- c) Vertical axis.
- d) Longitudinal axis.

**29. Which of the following is NOT a symptom of hyperventilation?**

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- a) Cyanose
- b) Tingling
- c) Spasm
- d) Disturbance of consciousness

**30. The EOBT (estimated off-block time) is specified in the ATS flight plan as...**

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- a) Coordinated Universal Time (UTC)
- b) Standard Time (ST)
- c) Local Mean Time (LMT).
- d) Central European Time (CET).

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

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

## 32. How can a wind shear encounter in flight be avoided?

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- a) Avoid take-off and landing during the passage of heavy showers or thunderstorms
- b) Avoid areas of precipitation, particularly during winter, and choose low flight altitudes
- c) Avoid take-offs and landings in mountainous terrain and stay in flat country whenever possible
- d) Avoid thermally active areas, particularly during summer, or stay below these areas

## 33. In which way is a SEP (land) rating renewed if you do not meet the required flight time?

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- a) A proficiency check with an examiner
- b) According to the flight experience there have to be several training flights under supervision of an ATO
- c) The ATO can renew the rating after a training flight with a flight instructor
- d) The required flight experience has to be accumulated under supervision of a flight instructor

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

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

## 35. Anemic hypoxia can be caused by...

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

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

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

**37. How should a power decrease be executed on a constant-speed propeller, provided that no other procedure is described in the flight manual?**

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- a) 1) Decrease RPM 2) Decrease manifold pressure
- b) 1) Decrease manifold pressure 2) Increase RPM
- c) 1) Decrease RPM 2) Increase manifold pressure
- d) 1) Decrease manifold pressure 2) Decrease RPM

**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. 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.

**40. Which is the maximum rate of climb for the aircraft at 6500 ft pressure altitude and an OAT of 0° C? See annex (PFP-011) (1,00 P.) Siehe Anlage 11**

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- a) 480 ft / min
- b) 400 ft / min
- c) 520 ft / min
- d) 800 ft / min



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## 41. Stability around which axis is mainly influenced by the center of gravity's longitudinal position?

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

## 42. Regularity messages are messages...

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- a) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- b) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.
- c) Sent by an aircraft operating agency or an aircraft of immediate concern to an aircraft in flight
- d) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation

## 43. The static pressure of gases work...

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- a) Only vertical to the flow direction.
- b) Only in the direction of the total pressure.
- c) In all directions.
- d) Only in flow direction

## 44. What is the minimum flight visibility in airspace "C" at and above FL 100 for an aircraft operating under VFR?

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- a) 1.5 km
- b) 5 km
- c) 10 km
- d) 8 km

## 45. A Pre-Flight Information Bulletin (PIB) is a presentation of current...

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- a) ICAO information of operational significance prepared after the flight
- b) AIP information of operational significance prepared prior to flight.
- c) AIC information of operational significance prepared after the flight.
- d) NOTAM information of operational significance prepared prior to flight.

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## 46. 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

## 47. 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.

## 48. What is the meaning of an area marked as "TMZ"?

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- a) Transportation Management Zone
- b) Touring Motorglider Zone
- c) Traffic Management Zone
- d) Transponder Mandatory Zone

## 49. 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

## 50. What must be considered if the alternator fails in a helicopter?

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- a) All instruments and warning systems will fail
- b) No change as long as the battery provides enough power
- c) The engine runs roughly and is prone to knocking
- d) Only high power consumers will failing

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## 51. 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.

## 52. 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

## 53. After an engine failure, the windmilling propeller...

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- a) Generates neither thrust nor drag.
- b) Has a greater pitch in feathered position
- c) Generates drag rather than thrust.
- d) Improves the properties of the glide

## 54. The end of the green arc (4) indicates which airspeed? See figure (PFP-008) (1,00 P.) Siehe Anlage 8

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- a) VNO: Maximum speed for normal operations
- b) VNE: Never-exceed speed
- c) VFE: Maximum flap extended speed
- d) VS1: Stall speed with flaps up

## 55. The critical angle of attack...

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- a) Increases with a front centre of gravity.
- b) Decreases with a rear centre of gravity.
- c) Is changed by different aircraft weights.
- d) Is not changed by different aircraft weights.

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**56. 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

**57. An attitude director indicator (ADI) combines the information provided by...**

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- a) The attitude indicator and the flight director.
- b) The directional gyro and the rate gyro.
- c) The attitude indicator and the relative bearing indicator.
- d) The attitude indicator and the radio magnetic indicator

**58. The primer is...**

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- a) An auxiliary pump in the fuel system to facilitate engine starting
- b) A mechanical switch in the cockpit to engage the turbocharger.
- c) A valve in the fuel control system for automatic mixture regulation.
- d) A nozzle in the Venturi tube of a carburettor for atomising the fuel

**59. When air masses meet each other head on, how is this referred to and what air movements will follow?**

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- a) Convergence resulting in sinking air
- b) Divergence resulting in sinking air
- c) Convergence resulting in air being lifted
- d) Divergence resulting in air being lifted

**60. Given the following conditions, the take-off distance equals... Outside air temperature: -20° C Pressure Altitude: 5000 ft Aeroplane mass: 750 kg Headwind: 10 kt**

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- a) 450 m.
- b) 380 m
- c) 410 m
- d) 310 m.

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**61. What clouds and weather may result from an humid and instable air mass, that is pushed against a chain of mountains by the predominant wind and forced to rise?**

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- a) Embedded CB with thunderstorms and showers of hail and/or rain.
- b) Thin Altostratus and Cirrostratus clouds with light and steady precipitation.
- c) Overcast low stratus (high fog) with no precipitation.
- d) Smooth, unstructured NS cloud with light drizzle or snow (during winter)

**62. 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.

**63. 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

**64. What is the difference between a locator beacon and a non-directional beacon (NDB)?**

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- a) Locator beacons transmit more precisely
- b) Locator beacons have a higher range than NDBs
- c) Locator beacons transmit on request only
- d) Locator beacons have a lower range than NDBs

**65. Wing tip vortex development begins during which phase of flight?**

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- a) As soon as the aircraft starts moving
- b) While setting take-off power during take-off run
- c) While setting flaps to lower position
- d) When lift is being generated during rotation

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## 66. Which danger exists after a heavy rain shower for a landing aircraft?

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- a) Displacement of the tire slip marking
- b) Difficult flare due to glare
- c) Longer braking distance due to aquaplaning
- d) Decreased braking distance due to aquaplaning

## 67. What happens to a helicopter during cruise when the stick is moved forward without other corrections?

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- a) The speed increases and the sink rate increases
- b) The speed decreases and the sink rate increases
- c) The speed increases and the sink rate decreases
- d) The speed decreases and the sink rate decreases

## 68. Which of the following conditions are most favourable for ice accretion?

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- a) Temperatures between  $0^{\circ}\text{C}$  and  $-12^{\circ}\text{C}$ , presence of supercooled water droplets (clouds)
- b) Temperatures below  $0^{\circ}\text{C}$ , strong wind, sky clear of clouds
- c) Temperatures between  $+10^{\circ}\text{C}$  and  $-30^{\circ}\text{C}$ , presence of hail (clouds)
- d) Temperatures between  $-20^{\circ}\text{C}$  and  $-40^{\circ}\text{C}$ , presence of ice crystals (Ci clouds)

## 69. 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

## 70. 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 [ $^{\circ}$ ].
- c) The ratio between the change in height and the horizontal distance distance travelled within the same time, expressed in degrees [ $^{\circ}$ ].
- d) The angle between a horizontal plane and the actual flight path, expressed in percent [%].

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## Schema Risposte

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

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