

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot Licence, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

**01. For purpose of wake turbulence separation, what is the ICAO minimum separation time if a light aeroplane (7000 kg or less) is following a medium aeroplane (less than 136000 kg but more than 7000 kg) on the approach to landing ?**

- a) 5 minutes
- b) 4 minutes
- c) 2 minutes
- d) 3 minutes

**02. What is the SI unit of measurement for power?**

- a) Pa/m<sup>2</sup>
- b) Kg/m/s<sup>2</sup>
- c) N/m
- d) Nm/s

**03. What is 'VOLMET'?**

- a) Meteorological station.
- b) Volume control meter.
- c) Meteorological information for aircraft in flight.
- d) A device used for measuring cloud base.

**04. An aircraft which is not engaged in scheduled international air services and which is making a flight to or through any designated airport of a Contracting State and is admitted temporarily free of duty shall be allowed to remain within that State without security for customs duty:**

- a) For a period of 12 hours.
- b) For a period to be established by that State.
- c) For a period of 24 hours.
- d) For a period of 48 hours.

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**05. When flying in cold air (colder than standard atmosphere), the altimeter will:**

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- a) Underestimate
- b) Be just as correct as before
- c) Overestimate
- d) Show the actual height above ground

**06. What weather conditions are prevalent during the summer, over the North sea, approximately 300 km behind a quickly moving cold front?**

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- a) Showers and thunderstorms.
- b) Rain covering a large area, 8 oktas NS.
- c) Cloud cover mostly scattered, isolated showers.
- d) 8 oktas CS, AS without precipitation.

**07. The maximum quantity of fuel that can be loaded into an aircraft's tanks is given as 400 US Gallons. If the fuel density (specific gravity) is given as 0.79 the mass of fuel which may be loaded is:**

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- a) 1437 kg
- b) 1916 kg
- c) 2302 kg
- d) 1196 kg

**08. What is the radiotelephony call sign for the aeronautical station indicating area control centre (no radar)?**

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- a) ...CONTROL
- b) ...RADAR
- c) ...APPROACH
- d) ...CENTRE

**09. Under which of the following circumstances shall an aircraft squawk 7600 ?**

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- a) When entering bad weather areas
- b) In case of radio communication failure
- c) When flying over desert areas
- d) When approaching a prohibited area

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**10. How many feet you have to climb to reach FL 75? Given: FL 75 departure aerodrome elevation 1500' QNH = 1023 hPa temperature = ISA 1 hPa = 30'**

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- a) 6000'
- b) 6300'
- c) 7800'
- d) 5700'

**11. Concerning the flight warning system (FWS), advisory messages may be:**

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- a) Any colour except amber.
- b) Red.
- c) Any colour except red, and preferably not amber.
- d) Any colour except green.

**12. The order of priority of the following messages in the aeronautical mobile service is:**

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- a) Flight safety message, meteorological message, flight regularity message.
- b) Flight safety message, direction finding message, urgency message.
- c) Flight regularity message, distress message, meteorological message.
- d) Meteorological message, direction finding message, flight safety message.

**13. A ground radar transmitting at a PRF of 1200 pulses/second will have a maximum unambiguous range of approximately:**

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- a) 135 NM
- b) 67 NM
- c) 27 NM
- d) 400 FT/MIN

**14. What is the correct way of transmitting the number 13500 to indicate an altitude or cloud height?**

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- a) One three five zero zero
- b) One three five hundred
- c) Thirteen thousand five hundred
- d) One three thousand five hundred

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**15. If the take-off mass of an aeroplane is tyre speed limited, downhill slope would:**

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- a) Have no effect on the maximum mass for take-off
- b) Increase the required take-off distance
- c) Increase the maximum mass for take-off
- d) Decrease the maximum mass for take-off

**16. The maximum zero fuel mass is a mass limitation for the:**

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- a) Strength of the fuselage
- b) Strength of the wing root
- c) Total load of the fuel imposed upon the wing
- d) Allowable load exerted upon the wing considering a margin for fuel tanking

**17. Before takeoff, a briefing:**

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- a) Is not necessary when departing from home base because this is routine
- b) Must be done systematically in order to refresh the memory of the crew members and to co- ordinate actions
- c) Is not necessary if the crew members know each other
- d) Is not required unless both crew members agree it is essential

**18. The dangerous goods regulations ICAO annex 18 and JAR OPS require that, when delivering cargo for transport, the responsibility for compliance with the regulations are to:**

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- a) Commander.
- b) Station manager.
- c) Sender.
- d) Aerodrome manager.

**19. What determines the longitudinal stability of an aeroplane ?**

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- a) The effectiveness of the horizontal stabilizer, rudder and rudder trim tab.
- b) The location of the centre of gravity with respect to the neutral point.
- c) The dihedral, angle of sweepback and the keel effect.
- d) The relationship of thrust and lift to weight and drag.

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## 20. When transmitting time, which time system shall be used?

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- a) Local time (LT) M. and P.M.
- b) Local time (LT), 24-hour clock
- c) No specific system, as only the minutes are normally required
- d) Co-ordinated universal time (UTC)

## 21. Which word or phrase shall be used if you want to say: 'Reduce your rate of speech'?

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- a) Repeat
- b) Words twice
- c) Say again
- d) Speak slower

## 22. The greatest wake turbulence occurs when the generating aircraft is:

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- a) Large, heavy, at maximum speed in full flaps configuration
- b) Small, light, at low speed in clean configuration
- c) Large, heavy, at low speed in clean configuration
- d) Small, light, at maximum speed in full flaps configuration

## 23. What type of satellite navigation system NAVSTAR/GPS receiver is most suitable for use on board an aircraft?

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- a) Multiplex
- b) Sequential
- c) Any hand held type
- d) Multichannel

## 24. To calculate a allowable take-off mass, the factors to be taken into account include:

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- a) The sum of the maximum landing mass and the fuel on board at take-off.
- b) The sum of the maximum zero fuel mass and the trip fuel.
- c) The sum of the maximum landing mass and the trip fuel.
- d) The maximum take-off mass minus the trip fuel.

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**25. 5 HR 20 MIN 20 SEC corresponds to a longitude difference of:**

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- a) 81°10'
- b) 80°05'
- c) 78°45'
- d) 75°00'

**26. A category C aeroplane can carry out a circling approach only if the meteorological visibility is higher than or equal to:**

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- a) 3600 m
- b) 2400 m
- c) 1500 m
- d) 1600 m

**27. The operation of the GPWS (Ground Proximity Warning System) is governed by laws taking the aircraft height into account as well as:** 1- the descent rate 2- the climb rate 3- the aircraft configuration 4- the selected engine rpm **The combination regrouping all the correct statements is:**

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- a) 1,3
- b) 2,3
- c) 2,4
- d) 1,2,4

**28. Which of the following lists the phenomena least likely to be detected by radar?**

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- a) Turbulence in cloud that has precipitation
- b) Precipitation
- c) Wet snow and turbulence in cloud that has precipitation
- d) 308 pps

**29. What does the abbreviation 'INS' mean:**

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- a) Instrument navigation system
- b) International NOTAM system
- c) Inertial navigation system
- d) International navigation service

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## 30. Control Area (CTA) is defined as follows:

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- a) A controlled airspace extending upwards from a height of 900 feet above the Earth.
- b) A controlled airspace extending upwards from a height of 1.000 feet above the Earth.
- c) A controlled airspace extending upwards from the surface of the Earth to a specified limit.
- d) A controlled airspace extending upwards from a specified limit above the Earth.

## 31. Static lateral stability will be increased by:

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- a) Reducing wing sweepback.
- b) Reducing the size of the vertical tail.
- c) Reducing wing anhedral.
- d) The use of a low, rather than high, wing mounting.

**32. A jet aeroplane, with the geometrical characteristics shown in the appendix, has a take-off weight (W) of 460 000 N and a centre of gravity (point G on annex) located at 15.40 m from the zero reference point. At the last moment the station manager has 12 000 N of freight added in the forward compartment at 10 m from the zero reference point. The final location of the centre of gravity, calculated in percentage of mean aerodynamic chord AB (from point A), is equal to:**

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- a) 16.9 %.
- b) 27.5 %.
- c) 35.5 %.
- d) 30.4 %.

## 33. What does the term 'way point' mean:

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- a) A defined position on an aerodrome used for the calibration of the inertial navigation system
- b) A signal indicating the direction of the runway-in-use
- c) A specified geographical position used to define an area navigation route or the flight path of an aircraft employing area navigation
- d) A general term meaning the taxiway- and the runway-system of an international airport

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**34. The accessory units driven by the accessory gearbox of a turbo-jet engine are the 1. tacho-generator N1 2. tacho-generator N2 3. thrust reverser pneumatic motors 4. AC generator and its Constant Speed Unit (CSD) 5. oil pumps 6. hydraulic pumps 7. high pressure fuel pumps The combination regrouping all the correct statements is:**

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

**35. Given: Maximum allowable take-off mass 64 400 kg maximum landing mass 56200 kg maximum zero fuel mass 53 000 kg dry operating mass 35 500 kg estimated load 14 500 kg estimated trip fuel 4 900 kg minimum take-off fuel 7 400 kg. Find: maximum additional load**

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- a) 3 000 kg
- b) 5 600 kg
- c) 7 000 kg
- d) 4 000 kg

**36. Which of the following statements is correct?**

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- a) If the actual centre of gravity is located behind the aft limit of centre of gravity it is possible that the aeroplane will be unstable, making it necessary to increase elevator forces
- b) A tail heavy aeroplane is less stable and stalls at a lower speed than a nose heavy aeroplane
- c) The lowest stalling speed is obtained if the actual centre of gravity is located in the middle between the aft and forward limit of centre of gravity
- d) If the actual centre of gravity is close to the forward limit of the centre of gravity the aeroplane may be unstable, making it necessary to increase elevator forces

**37. Which of the following combinations basically has an effect on the angle of descent in a glide?(Ignore compressibility effects.)**

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- a) Configuration and angle of attack
- b) Configuration and mass
- c) Altitude and configuration
- d) Mass and altitude



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**38. In the Airspace where the MNPS is applicable, the vertical separation that can be applied between FL 290 and FL410 inclusive is:**

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- a) 1 000 ft
- b) 1 500 ft
- c) 2000ft
- d) 500 ft

**39. An air temperature of -15°C at the 700 hPa level over central Europe in summer is:**

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- a) Low
- b) 20°C below standard
- c) Within +/-5°C of ISA
- d) High

**40. The take-off runway performance requirements for transport category aeroplanes are based upon:**

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- a) All engines operating only
- b) One engine inoperative only
- c) Failure of the critical engine or all engines operating whichever requirement gives the greater distance
- d) Failure of the critical engine only

**41. Which of the following messages shall a station in control of distress use to impose silence?**

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- a) Stop transmitting, DISTRESS
- b) Stop transmitting, EMERGENCY
- c) Stop transmitting, MAYDAY
- d) All stations in this frequency, MAYDAY traffic

**42. Longitudinal separation minima based on time for aircraft at the same cruising level when navigation aids permit frequent determination of position and speed provided that the preceding aircraft is maintaining a true air speed of 20 Kt or more faster than the succeeding aircraft will be**

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- a) 10 minutes
- b) 3 minutes
- c) 2 minutes
- d) 5 minutes

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**43. Under which of the following circumstances does a VOR/DME Area Navigation system switch to Dead Reckoning mode?**

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- a) VOR/DME Area Navigation computer is not receiving information from the aircraft compass system.
- b) VOR/DME Area Navigation computer is not receiving information from the Air Data Computer.
- c) When "DR" is selected by the pilot.
- d) Beam width

**44. Except for airplanes under 5,7 t airworthiness certificate of which is subsequent to 31 march 1998, a flight data recording system must be able to store the recorded data for a minimum of the last:**

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- a) 30 minutes.
- b) 10 hours.
- c) 60 minutes.
- d) 25 hours.

**45. Surface temperature inversions are frequently generated by**

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- a) Terrestrial radiation on a calm clear night
- b) Compression causing the release of latent heat in a layer of stratiform cloud
- c) Gusting winds increasing surface friction during the day with consequent mixing at the lower levels
- d) An unstable air mass causing convection currents and mixing of the atmosphere at lower levels

**46. Which of the following is correct?**

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- a) The Kinesthetic channel is the most important channel in flying
- b) 70% - 80% of information processed by man enters the visual channel
- c) 40% of information processed by man enters the visual channel
- d) Hearing is the most important sense for man

**47. The best rate of climb at a constant gross mass:**

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- a) Increases with increasing altitude due to the higher true airspeed
- b) Increases with increasing altitude since the drag decreases due to the lower air density
- c) Is independent of altitude
- d) Decreases with increasing altitude since the thrust available decreases due to the lower air density

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**48. Some of the FMS have a navigation mode called Dead Reckoning mode (DR), computing airspeed, heading, wind data ground speed and time. This mode is:**

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- a) A navigation mode used to monitor the FMS position.
- b) An operating mode used to intercept radials To or From a flight plan waypoint.
- c) The normal navigation mode for FMS which do not use Inertial navigation Systems INS to compute the aircraft position.
- d) A back up navigation mode to compute a FMS position when the other navigation sensors are no longer operating.

**49. You are flying a constant compass heading of 252°. Variation is 22°E, deviation is 3°W and your INS is showing a drift of 9° right. True track is ?**

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- a) 242°
- b) 224°
- c) 262°
- d) 280°

**50. The first cockpit tool that tends to suffer as a result of stress:**

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- a) Cockpit communications
- b) Cockpit entity
- c) Cockpit cohesion
- d) Cockpit synergy

**51. Compared with level flight prior to the stall, the lift ( 1) and drag ( 2) in the stall change as follows:**

---

- a) (1) decreases (2) decreases
- b) (1) increases (2) increases
- c) (1) decreases (2) increases
- d) (1) increases (2) decreases

**52. Refer to JAR Student Pilot Route Manual, Paris, Charles-de-Gaulle (Plate 20- 2): The route distance from CHIEVRES (CIV) to BOURSONNE (BSN) is:**

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- a) 83 NM
- b) 96 NM
- c) 73 NM
- d) 88 NM[see Annex]

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**53. According to the JAR-OPS requirements, an IFR flight with no alternate aerodrome can be undertaken only if the minimum weather conditions (VMC) are effective for at least:**

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- a) 2 hours before to at least 2 hours after the expected time of arrival
- b) 3 hours before to at least 1 hour after the expected time of arrival
- c) 1 hour before to at least 1 hour after the expected time of arrival
- d) 3 hours before to at least 3 hours after the expected time of arrival

**54. A 'Zener' diode is used for:**

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- a) Rectification.
- b) Voltage stabilization.
- c) Digital displays.
- d) Reverse Current Protection.

**55. The maximum indicated air speed of a piston engine aeroplane without turbo charger, in level flight, is reached:**

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- a) At the optimum cruise altitude
- b) At the lowest possible altitude
- c) At the practical ceiling
- d) At the service ceiling

**56. According to the 'Aerodrome Reference Code', the 'Code Letter E' shall identify an aircraft wing span of:**

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- a) 52 m up to but not including 65 m.
- b) 15 m up to but not including 24 m.
- c) 24 m up to but not including 36 m.
- d) 36 m up to but not including 52 m.

**57. The Flight Management Computer (FMC) position is:**

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- a) The actual position of the aircraft at any point in time
- b) The same as that given on the No. 1 IRS
- c) The computed position based on a number of sources (IRS, Radio, ILS, GPS etc)
- d) Clear air turbulence

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## 58. The critical angle of attack:

---

- a) Increases if the CG is moved forward
- b) Remains unchanged regardless of gross weight
- c) Changes with an increase in gross weight
- d) Decreases if the CG is moved aft

## 59. Why is hypoxia especially dangerous for pilots flying solo?

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- a) In a multi-crew cockpit hypoxia will always be detectable.
- b) Only a solo pilot is more prone to illusions.
- c) Hypoxia improves night vision therefore the pilot will have no indication of danger.
- d) Since the first signs of hypoxia are generally hard to detect.

## 60. Hard iron magnetism in aircraft may be caused by:

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- a) All answers are correct.
- b) A strike of lightning.
- c) Magnetic qualities of the cargo or baggage.
- d) Steel components, mainly in engines and undercarriage.

## 61. Which of the following statements is applicable to the acceleration height at the beginning of the 3rd climb segment?

---

- a) There is no requirement for minimum climb performance when flying at the acceleration height
- b) The minimum legally allowed acceleration height is at 1500'
- c) The minimum one engine out acceleration height must be maintained in case of all engines operating
- d) The maximum acceleration height depends on the maximum time take-off thrust may be applied

## 62. You have been calling a station without getting an answer. How long time it is recommended to wait at least before making a second call?

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- a) Wait until the station calls you.
- b) 10 sec.
- c) 3 sec.
- d) 30 sec.

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**63. Which of the following statements concerning the intertropical convergence zone is true?**

---

- a) It does not change its position over the oceans during the year
- b) It lies totally in the northern hemisphere in July and totally in the southern hemisphere in January
- c) It is an area of low pressure and low relative humidity
- d) There are frequent occurrences of CB

**64. A public transport aeroplane with reciprocating engines, the final reserve should be:**

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- a) Fuel to fly for 2 hours
- b) Fuel to fly for 1 hour at holding speed
- c) Fuel to fly for 45 minutes
- d) Fuel to fly for 30 minutes at holding speed

**65. A FMS with only a multiple DME sensor operating shall have a position error, 95% probability, in a non precision approach equal or less than:**

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- a) 0.06 NM
- b) 1 NM
- c) 0.3 NM
- d) Negligible

**66. As regards the detection of bird strike hazard, pilots may obtain information on bird strike hazards by means of: 1 - ATIS 2 - NOTAMS 3 - BIRDTAMs 4 - Weather radar 5 - The report by another crew. The combination regrouping all the correct statements is:**

---

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

**67. Which of the following statements with regard to the actual acceleration height at the beginning of the 3rd climb segment is correct?**

---

- a) A lower height than 400 ft is allowed in special circumstances e.g. noise abatement
- b) The minimum value according to regulations is 1000'
- c) The minimum value according to regulations is 400'
- d) There is no legal minimum value, because this will be determined from case to case during the calculation of the net flight path

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## 68. The thrust of a jet engine at constant RPM

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- a) Increases in proportion to the airspeed.
- b) Is inversely proportional to the airspeed.
- c) Is independent of the airspeed.
- d) Does not change with changing altitude.

## 69. During poor weather conditions a pilot should fly with reference to instruments because:

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- a) His attention will be distracted automatically under these conditions
- b) Perception of distance and speed is difficult in an environment of low contrast
- c) Pressure differences can cause the altimeter to give wrong information
- d) The danger of a 'greying out' will make it impossible to determine the height above the terrain

## 70. In an air mass with no clouds the surface temperature is 15°C and the temperature at 1000 m / AGL is 13°C. This layer of air is:

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- a) A layer of heavy turbulence
- b) Unstable
- c) This layer of air is: a layer of heavy turbulence unstable conditionally unstable
- d) Stable

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## Schema Risposte

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

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