

# Simulazione di Esame

Performance - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

**01. In accordance with JAR-OPS, an operator must ensure that the MDH for a VOR approach is not lower than:**

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

**02. How long will it take to fly 5 NM at a groundspeed of 269 Kt ?**

- a) 2 MIN 30 SEC
- b) 1 MIN 55 SEC
- c) 0 MIN 34 SEC
- d) 1 MIN 07 SEC

**03. Atmospheric refraction:**

- a) Causes the sunrise to occur later and the sunset to occur earlier.
- b) Causes the sunrise and the sunset to occur earlier.
- c) Causes the sunrise and the sunset to occur later.
- d) Causes the sunrise to occur earlier and the sunset to occur later.

**04. What does the abbreviation 'SSR' mean:**

- a) Search and surveillance radar
- b) Surface strength of runway
- c) Secondary surveillance radar
- d) Standard snow report

**05. In accordance with JAR-OPS 1, on aeroplanes intended to be operated at pressure altitude above 25000 ft, the total number of oxygen dispensing units shall exceed the number of:**

- a) Passengers by 10 %.
- b) Seats by 2 %.
- c) Seats by 10 %.
- d) Passengers by 2 %.

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**06. With respect to a single-engine piston powered aeroplane, determine the zero fuel moment (lbs.in./100) in the following conditions: Basic Empty Mass: 2415 lbs. Arm at Basic Empty Mass: 77,9 In. Cargo Zone A: 350 lbs. Baggage Zone B: 35 lbs. Pilot and front seat passenger: 300 lbs (total)**

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- a) 6675
- b) 2496,3
- c) 2548,8
- d) 2311,8

**07. For an aeroplane with a tyre pressure of 14 bars, there is a risk of dynamic hydroplaning as soon as the:**

---

- a) Water depth is equal to the half of the depth of the tyre grooves.
- b) Tail wind is greater than 10 kt.
- c) Speed is greater than 95 kt.
- d) Speed is greater than 129 kt.

**08. Prior to departure an aircraft is loaded with 16500 litres of fuel at a fuel density of 780 kg/m<sup>3</sup>. This is entered into the load sheet as 16500 kg and calculations are carried out accordingly. As a result of this error, the aircraft is**

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- a) Lighter than anticipated and the calculated safety speeds will be too low
- b) Lighter than anticipated and the calculated safety speeds will be too high
- c) Heavier than anticipated and the calculated safety speeds will be too low.
- d) Heavier than anticipated and the calculated safety speeds will be too high

**09. The maximum quantity of fuel that can be loaded into an aircraft's tanks is given as 3800 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) 14383 kg
- b) 11364 kg
- c) 13647 kg
- d) 18206 kg

**10. A jet aeroplane equipped with inboard and outboard ailerons is cruising at its normal cruise Mach number. In this case**

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- a) The inboard and outboard ailerons are active.
- b) Only the outboard aileron are active.
- c) Only the spoilers will be active, not the ailerons.
- d) Only the inboard ailerons are active.

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**11. Refer to Student Pilot Route Manual E(LO)1 What is the radial and DME distance from CON VOR/DME (N5354.8 W00849. 1) to position N5340 W00820?**

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- a) 119° - 42 NM
- b) 311° - 22 NM
- c) 140° - 23 NM
- d) 240° - 24 NM[see Annex]

**12. What characterizes a stationary front ?**

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- a) The surface wind usually has its direction parallel to the front
- b) The weather conditions that it originates is a combination between those of an intense cold front and those of a warm and very active front
- c) The warm air moves at approximately half the speed of the cold air
- d) The surface wind usually has its direction perpendicular to the front

**13. The acquisition of a motor programme (skill) will mean that:**

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- a) The more behaviour is automated, the more it requires attention and the more it frees resources
- b) The more behaviour is automated, the less it requires conscious attention and thus the more it frees mental resources
- c) The less behaviour is automated, the less it requires attention and the more it frees resources
- d) The more behaviour is automated, the more it requires attention and the less it frees resources

**14. On an aeroplane without central fuel tank, the maximum Zero Fuel Mass is related to:**

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- a) The bending moment at the wing root.
- b) Variable equipment for the flight.
- c) Wing loaded trip fuel.
- d) Maximum Structural Take-Off Mass.

**15. The stable layer at some height in the low troposphere of an older high pressure area in the mid-latitudes is called**

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- a) Subsidence inversion
- b) Trade wind inversion
- c) Radiation inversion
- d) Friction inversion

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## 16. What does the expression 'Broken (BKN)' mean?

---

- a) 3-4 eighths of the sky is cloud covered
- b) 3-5 eighths of the sky is cloud covered
- c) 5-7 eighths of the sky is cloud covered
- d) Nil significant cloud cover

## 17. The assessment of risk in a particular situation will be based on

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- a) Subjective perception and evaluation of situational factors
- b) Situational factors only
- c) The emergency checklist only
- d) External factors only

## 18. What human function is most sensitive to lack of oxygen?

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- a) Hearing
- b) Motor co-ordination
- c) Touch
- d) Night vision

## 19. General provisions - handling an ATC-flight plan in case of a delayIn the event of a delay for an uncontrolled flight for which a flight plan has been submitted, the flight plan should be amended or a new flight plan submitted and the old one cancelled, when the delay is exceeding the original

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- a) Estimated off-block time by 30 minutes.
- b) Estimated off-block time by 60 minutes.
- c) Estimated departure time by 30 minutes.
- d) Estimated departure time by 60 minutes.

## 20. The maximum theoretical range at which an aircraft at FL230 may receive signals from a VOR facility sited at mean sea level is:

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- a) 170 NM
- b) 230 NM
- c) 151 NM
- d) 190 NM

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**21. Aircraft XY-ABC is making a test transmission with Stephenville TOWER on frequency 118.7. What is the correct phrasing for this transmission:**

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- a) Stephenville TOWER XY-ABC radio check 118.7
- b) Stephenville TOWER XY-ABC frequency check
- c) Stephenville TOWER XY-ABC signal check
- d) Stephenville TOWER XY-ABC pre-flight check

**22. The distress message shall contain as many as possible of the following elements/details:**

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- a) Aircraft call sign, route of flight, destination airport
- b) Aircraft call sign, aerodrome of departure, position and level
- c) Aircraft call sign, nature of distress, pilot's intention, present position, level and heading
- d) Aircraft call sign, present position, assistance required

**23. Which phraseology shall a pilot use if he receives an instruction from ATC which he cannot carry out:**

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- a) Negative instruction
- b) Impossible to make it
- c) Unable to comply
- d) Disregard

**24. Refer to Student Pilot Route Manual London, Heathrow (Plate 10- 3):Which of the following is a correct Minimum Safe Altitude (MSA) for the Airport?**

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- a) West sector 2300 ft within 25 NM
- b) East sector 2100 ft within 50 NM
- c) West sector 2100 ft within 25 NM
- d) East sector 2300 ft within 50 NM[see Annex]

**25. Given:Distance A to B is 360 NM. Wind component A - B is -15 kt, Wind component B - A is +15 kt, TAS is 180 kt.What is the distance from the equal-time-point to B?**

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- a) Straight lines regardless of distance
- b) Curves concave to the pole of projection
- c) Curves concave to the parallel of origin
- d) Straight lines within the standard parallels

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**26. For a given aeroplane, the wake turbulence increases when the aeroplane has a:**

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- a) Low mass and low airspeed
- b) High mass and high airspeed
- c) Low mass and high airspeed
- d) High mass and low airspeed

**27. Just prior to departure, you accept 10 passengers additional on board who will be seated in 'compartment OC' and you have 750 kg unloaded from cargo compartment 5. The take-off centre of gravity in MAC % (Mean Aerodynamic Chord) will be located at:**

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- a) 29.5 %
- b) 27.8 %
- c) 27.2 %
- d) 30.5 %

**28. The nominal scale of a Lambert conformal conic chart is the:**

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- a) Mean scale between pole and equator
- b) Mean scale between the parallels of the secant cone
- c) Scale at the standard parallels
- d) Scale at the equator

**29. The hydraulic device similar to an electronic diode is a:**

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- a) Flow Control Valve.
- b) Distribution valve.
- c) Check valve.
- d) Shutoff Valve.

**30. During an arrival procedure under an IFR flight plan in VMC conditions, traffic avoidance is the responsibility of:**

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- a) The approach controller.
- b) The radar controller.
- c) The pilot in command.
- d) The airport controller.

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**31. The landing field length required for jet aeroplanes at the alternate (wet condition) is the demonstrated landing distance plus**

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- a) 92%
- b) 67%
- c) 70%
- d) 43%

**32. For an aeroplane with a tyre pressure of 12 bars, there is a risk of dynamic hydroplaning as soon as the:**

---

- a) Water depth is equal to the half of the depth of the tyre grooves.
- b) Speed is greater than 83 kt.
- c) Speed is greater than 119 kt.
- d) Cross wind is greater than 10 kt.

**33. Which of the following statements, concerning the obstacle limited take-off mass for performance class A aeroplane, is correct?**

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- a) It should be calculated in such a way that there is a margin of 50 ft with respect to the 'net take off flight path'
- b) It should not be corrected for 30° bank turns in the take-off path
- c) It cannot be lower than the corresponding climb limited take-off mass
- d) It should be determined on the basis of a 35 ft obstacle clearance with the respect to the 'net take- off flight path'

**34. On an ILS approach, the localiser needle is fully over to the left. How much deflection does this indicate?**

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- a) 5°
- b) 10°
- c) 2.5°
- d) Radials from a minimum of two VORs to the waypoint or 'Phantom Station'

**35. What does the abbreviation 'FIR' mean?**

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- a) Flight information required.
- b) Flight information region.
- c) Flight information radar.
- d) Flow information received.

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## 36. The limits of the green scale of an airspeed indicator are:

- a) VS1 for the lower limit and VNE for the upper limit
- b) VS0 for the lower limit and VNO for the upper limit
- c) VS1 for the lower limit and VLO for the upper limit
- d) VS1 for the lower limit and VNO for the upper limit

## 37. Which of the following statements is correct?

- a) The performance limited take-off mass is independent of the wind component
- b) The accelerate stop distance required is independent of the runway condition
- c) The climb limited take-off mass is independent of the wind component
- d) The take-off distance with one engine out is independent of the wind component

## 38. According to EASA CS the allowable quantitative average failure probability per flight hour for a HAZARDOUS FAILURE should be on the order of:

- a) Between  $10^{-5}$  And  $10^{-7}$  (remote Probability)
- b) Between  $10^{-3}$  and  $10^{-5}$  (probable)
- c) Between  $10^{-7}$  and  $10^{-9}$  (extremely remote probability)
- d) Less Than  $10^{-9}$  (extremely Improbable)

## 39. An aeroplane is performance limited to a landing mass of 54230 kg. The Dry Operating Mass is 35000 kg and the zero fuel mass is 52080 kg. If the take-off mass is 64280 kg the useful load is

- a) 29280 kg.
- b) 10080 kg.
- c) 12200 kg.
- d) 17080 kg

## 40. Which statement regarding V1 is correct?

- a) V1 must not exceed VMCG
- b) V1 must not exceed VR
- c) The V1 correction for up-slope is negative
- d) When determining the V1, reverse thrust is only allowed to be taken into account on the remaining symmetric engines



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**41. An aircraft is flying in the southern hemisphere at low altitude (less than 2000') and going directly away from a centre of low pressure. What direction, relative to the aircraft, does the wind come from?**

---

- a) From the right and slightly on the tail
- b) From the right and slightly on the nose
- c) From the left and slightly on the tail
- d) From the left and slightly on the nose

**42. The speed for maximum lift/drag ratio will result in:**

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- a) The maximum endurance for a propeller driven aeroplane
- b) The maximum range for a jet aeroplane
- c) The maximum angle of climb for a propeller driven aeroplane
- d) The maximum range for a propeller driven aeroplane

**43. If, in the event of a failure, the approach, flare and landing can be completed by the remaining part of the automatic system, such an automatic landing system is considered as:**

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- a) Fail-operational.
- b) Fail-hard.
- c) Fail-soft.
- d) Fail-passive.

**44. Although we have a field of vision of more than 180° it is important during flight to use the scanning technique, because:**

---

- a) It is tiring to look continually in the same direction
- b) Only in the peripheral area of the retina resolution is good enough to see an object clearly
- c) Only in the foveal area resolution is good enough to see an object clearly
- d) The reduction in the field of vision with decreasing altitude is due to a lack of vitamin A

**45. Where is the centre of gravity of the aeroplane in the diagram?**

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- a) 26.57 cm forward of datum.
- b) 32.29 cm aft of datum.
- c) 26.57 cm aft of datum.
- d) 32.29 cm forward of datum.

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**46. In an autopilot system, the basic stabilisation modes are: 1) Altitude hold. 2) Pitch attitude hold. 3) Roll attitude hold. 4) IAS hold. The combination regrouping all the correct statements is:**

---

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

**47. Fastair 345 has been instructed to contact Stephenville ARRIVAL on frequency 118.0. What is the correct way to indicate it will follow this instruction:**

---

- a) Changing over Fastair 345
- b) Changing to ARRIVAL Fastair 345
- c) 118.0 Fastair 345
- d) Stephenville ARRIVAL Fastair 345

**48. In accordance with the fuel policy for isolated aerodromes (JAR-OPS 1), for aeroplanes with turbine engines, the amount of Additional Fuel should not be less than the fuel to fly after arriving overhead the destination aerodrome for:**

---

- a) 2 hours at holding consumption at 1 500 ft (450 m) above aerodrome elevation in standard conditions.
- b) 30 minutes at normal cruise consumption, including final reserve fuel.
- c) 30 minutes at holding consumption at 1 500 ft (450 m) above aerodrome elevation in standard conditions.
- d) 2 hours at normal cruise consumption, including final reserve fuel.

**49. The most effective way to dissipate cloud is by**

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- a) Convection
- b) Subsidence
- c) A decrease in pressure
- d) A decrease in temperature

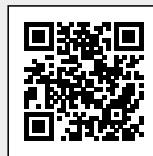
**50. Which is the frequency band containing frequencies of the Aeronautical Mobile Service?**

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- a) 108.000 - 117.975 MHz
- b) 1810 - 2850 KHz
- c) 118.000 - 136.975 MHz
- d) 11650 - 13200 KHz

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**51. An aeroplane must be re-weighed at certain intervals. Where an operator uses 'fleet masses' and provided that changes have been correctly documented, this interval is**

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- a) 9 years for each aeroplane.
- b) Whenever a major modification is carried out.
- c) Whenever the Certificate of Airworthiness is renewed.
- d) 4 years for each aeroplane.

**52. How does moderate turbulence affect an aircraft?**

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- a) Large, abrupt changes in altitude or attitude occur but the aircraft may only be out of control momentarily.
- b) Changes in altitude or attitude occur but the aircraft remains in positive control at all times.
- c) Continued flight in this environment will result in structural damage.
- d) Rapid and somewhat rhythmic bumpiness is experienced without appreciable changes in altitude or attitude.

**53. Compared with a conventional gyro, a laser gyro:**

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- a) Is influenced by temperature
- b) Has a longer life cycle
- c) Consumes a lot of power
- d) Has a fairly long starting cycle

**54. 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

**55. Slat extension will:**

---

- a) Reduce tip vortices
- b) Create gaps between leading edge and engine nacelles
- c) Increase the critical angle of attack
- d) Decrease the energy in the boundary layer on the upper side of the wing

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## 56. Which of the following affects VDF range?

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- a) The height of the transmitter and of the receiver.
- b) Strength of the pilot's voice when transmitting.
- c) Sky wave propagation.
- d) Monitor the orbital planes of the satellites

## 57. The Vestibular Apparatus consists of the:

---

- a) Eustachian tube and the semi-circular canals
- b) Semi-circular canals and the otoliths
- c) Eustachian tube and the pinna
- d) Cochlea and the auditory nerve

## 58. The distress communication and silence conditions shall be terminated by transmitting a message. Which words shall this message include?

---

- a) Distress traffic ended
- b) Disregard distress communication, OUT
- c) MAYDAY traffic ended
- d) Emergency communication finished

## 59. An aircraft wishes to obtain a bearing from a VDF station that will be plotted on the chart relative to True North. The correct RT call is:

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- a) True bearing, true bearing, G-BNKD request true bearing, G-BNK
- b) G-BNKD request QGH, G-BNK
- c) G-BNKD training fix, training fix, training fix, G-BN
- d) G-BNKD request QGH, G-BNK G-BNKD training fix, training fix, training fix, G-BNK G-BNKD request QDM, G-BNK

## 60. The minimum age for obtaining a PPL is:

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

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**61. Given: TAS = 95 kt, HDG (T) = 075°, W/V = 310/20kt. Calculate the drift and GS?**

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- a) 9L - 105 kt
- b) 10L - 104 kt
- c) 8R - 104 kt
- d) 9R - 108 kt

**62. What does the term 'blind transmission' mean?**

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- a) A transmission of information relating to air navigation that is not addressed to a specific station or stations.
- b) A transmission from one station to another station in circumstances where two-way communication cannot be established but it is believed that the called station is able to receive the transmission.
- c) A transmission where no reply is required from the receiving station.
- d) A transmission of messages relating to en-route weather information which may affect the safety of aircraft operations that is not addressed to a specific station or stations.

**63. Vortex generators mounted on the upper wing surface will**

---

- a) Decrease the interference drag of the trailing edge flaps.
- b) Decrease the shock wave induced separation.
- c) Increase the effectiveness of the spoiler due to increase in parasite drag.
- d) Decrease the stalling speed by increasing spanwise flow on the wing.

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

---

- 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

**65. Someone who has anaemia has:**

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- a) Not enough platelets
- b) Not enough plasma
- c) Not enough functional haemoglobin
- d) Not enough white blood cells

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**66. The constant of the cone, on a Lambert chart where the convergence angle between longitudes 010°E and 030°W is 30°, is:**

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- a) 0.50
- b) 0.40
- c) 0.64
- d) 0.75

**67. At which levels may Reduced Vertical Separation Minimum (RVSM) be used within the NAT region?**

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- a) Between FL275 and FL400 inclusive.
- b) Between FL245 and FL410 inclusive.
- c) Between FL290 and FL410 inclusive.
- d) Below FL290.

**68. Given: CRK VOR/DME (N5150.4 W00829.7) Kerry aerodrome (N5210.9 W00931.4) What is the CRK radial and DME distance when overhead Kerry aerodrome?**

---

- a) 145 kt
- b) 210 kt
- c) 136 kt
- d) 35 kt

**69. The drift down procedure specifies requirements concerning the:**

---

- a) Engine power at the altitude at which engine failure occurs.
- b) Climb gradient during the descent to the net level-off altitude.
- c) Obstacle clearance after engine failure.
- d) Weight during landing at the alternate.

**70. What is the minimum number of satellites required for the NAVSTAR/GPS to carry out two dimensional operation?**

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

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## Schema Risposte

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

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