

# Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

## 01. The approach climb requirement has been established to ensure:

- a) Minimum climb gradient in case of a go-around with one engine inoperative.
- b) Manoeuvrability during approach with full flaps and gear down, all engines operating.
- c) Manoeuvrability in case of landing with one engine inoperative.
- d) Obstacle clearance in the approach area.

## 02. The lift coefficient (CL) of an aeroplane in steady horizontal flight is 0.4. An increase in angle of attack of 1 degree will increase CL by 0.09. A vertical up gust instantly changes the angle of attack by 5 degrees. The load factor will be:

- a) 1.09
- b) 2.0
- c) 2.13
- d) 3.18

## 03. Given waypoint 1: 60°S 030°W and waypoint 2: 60°S 020°W, which have been inserted into INS connected to an autopilot, what will be the approximate latitude show on the display at longitude 025°W?

- a) 60°11'S
- b) 60°00'S
- c) 60°06'S
- d) 59°49'S

## 04. By what percentage does VA (EAS) alter when the aeroplane's weight decreases by 19%?

- a) 10% lower.
- b) 19% lower.
- c) No change
- d) 4.36% lower.

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## 05. VNE is the maximum speed:

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- a) Which must never be exceeded
- b) With flaps extended in landing position
- c) At which the flight controls can be fully deflected
- d) Not to be exceeded except in still air and with caution

## 06. The stalling speed in IAS will change according to the following factors:

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- a) Decrease in a forward c.g. location, higher altitude and due to the slip stream from a propeller on an engine located forward of the wing
- b) Increase during turn, increased mass and forward c.g. location
- c) Increase with increased load factor, more flaps but will not increase due to the bank angle in a turn
- d) Increase with increased load factor, icing conditions and an aft c.g. location

## 07. During a de-icing/anti-icing procedure carried out in two stages, the holdover time starts:

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- a) At the beginning of the first stage (de-icing stage).
- b) At the end of the second stage (anti-icing stage).
- c) At the beginning of the second stage (anti-icing stage).
- d) At the end of the first stage (de-icing stage).

## 08. The application of the area rule on aeroplane design will decrease the

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- a) Wave drag.
- b) Form drag.
- c) Induced drag.
- d) Skin friction drag.

## 09. Free running circadian rhythms normally have a cycle of approximately:

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- a) 25 hours
- b) 36 hours
- c) 8 hours
- d) 6 hours

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**10. At a given altitude, the hysteresis error of an altimeter varies substantially with the:**

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- a) Mach number of the aircraft.
- b) Aircraft attitude.
- c) Time passed at this altitude.
- d) Static temperature.

**11. What aircraft equipment marked a substantial decrease in hull loss rates in the eighties?**

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- a) DME
- b) SSR
- c) GPWS
- d) TCAS

**12. In order to enter a phantom waypoint that is designated by a VOR/DME simple RNAV system, the VOR/DME**

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- a) Must be in range
- b) Does not have to be in range when entered or used
- c) Has to be positively identified by one of the pilots
- d) NDB/VOR

**13. For an aeroplane with a tyre pressure of 16 bars, there is a risk of dynamic hydroplaning as soon as:**

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- a) Water depth is equal to the depth of the tyre grooves.
- b) Speed is greater than 117 kt.
- c) Cross wind is greater than 15 kt.
- d) Speed is greater than 138 kt.

**14. As a result of automation in cockpits,**

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- a) It is easier for the captain to monitor the work of the first officer and vice versa
- b) The need for communication between crew members has been decreased
- c) Communication and coordination call for an even greater effort on the part of the crew members
- d) Communication and coordination have clearly improved in man-man and man-machine relations

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**15. 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

**16. Which of the following statement(s) is/are correct?- 1: The retina has rods on its peripheral zone and cones on its central zone- 2: The retina has cones and the crystalline lens has rods- 3: The rods allow for night-vision- 4: The cones are located on the peripheral zone of the retina**

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

**17. Considering only structural limitations, on very short legs with minimum take-off fuel, the Traffic Load is normally limited by:**

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- a) Maximum Zero Fuel Mass.
- b) Actual Landing Mass.
- c) Maximum Take-off Mass.
- d) Maximum Landing Mass.

**18. VA is:**

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- a) The maximum speed at which rolls are allowed.
- b) The speed at which a heavy transport aeroplane should fly in turbulence.
- c) The maximum speed at which maximum elevator deflection up is allowed.
- d) The speed that should not be exceeded in the climb.

**19. . The moment for an item is**

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- a) The mass of the item divided by it's distance from the datum
- b) The mass of the item multiplied by it's distance from the datum
- c) The square of the distance the item is from the datum divided by it's mass
- d) The distance the item is from the datum divided by it's mass

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## 20. Which of the following conditions are most favourable to the formation of mountain waves?

- a) Stable air at mountain top altitude and a wind at least 20 knots blowing across the mountain ridge
- b) Moist unstable air at mountain top and wind of less than 5 knots blowing across the mountain ridge
- c) Either stable or unstable air at mountain top and a wind of at least 30 knots blowing parallel to the mountain ridge
- d) Unstable air at mountain top altitude and a wind at least 20 knots blowing across the mountain ridge

## 21. What does "SQUAWK IDENT" mean?

- a) Operate the SSR transponder "special position identification" feature.
- b) Select the SSR transponder mode to "ALT".
- c) State the aircraft call sign three times.
- d) Select the SSR transponder code to 7000.

## 22. Given are the following information at

take-off \_\_\_\_\_ STATION.....MASS  
(kg)....ARM (cm)....MOMENT (kgcm) \_\_\_\_\_ Basic  
Empty Condition...12045.....+30.....+361350Crew.....145.....-160.....-23200Freight (1).....570.....+200.....+114000Freight (2).....410.....-40.....-16400Fuel.....6045.....-8.....-48360  
Given that the flight time is 2 h and the estimated fuel flow will be 1050 litres per h. The specific density of fuel is 0.79. The 'Freight ( 2)' will be dropped during flight within the scope of a rescue action. Calculate the CG position at landing.

- a) 25 cm aft of datum
- b) 24.3 cm aft of datum
- c) 23.7 cm aft of datum
- d) 22 cm aft of datum

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

- 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)

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**24. 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

**25. The ICAO Annex 17 comprise rules in order to establish security measures for passengers**

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- a) Checked baggage, cargo and other goods
- b) And baggage
- c) Checked baggage, cargo and other goods, access control and airport design
- d) Cabin baggage, checked baggage, cargo and other goods, access control and airport design

**26. Given the following data calculate the CG as a %MAC when 12000N of last minute cargo is added to a hold 10m from the datum: AUM 46000N LEMac 14m from datum MAC 4.6m Current CG 15.4m from datum**

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- a) 29.25%
- b) 25%
- c) 30.5%
- d) 27.5%

**27. . When has the centre of gravity to be computed?**

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- a) At least every four years
- b) After every 400-hrs inspection
- c) During every yearly inspection
- d) Prior to every flight

**28. VMO:**

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- a) Is equal to the design speed for maximum gust intensity
- b) Should be chosen in between VC and VD
- c) Should not be less than VD
- d) Should not be greater than VC

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**29. Given: Distance from departure to destination 150 NM True track 142W/V 200/15TAS 132 kt What is the distance of the PET from the departure point?**

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- a) 79 NM
- b) 134 NM
- c) 75 NM
- d) 71 NM

**30. A pilot may get the illusion of low altitude on approach although the aircraft is on the correct glidepath:**

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- a) When the runway is unusually narrow
- b) When the runway is wider than he is used to
- c) Depending on the approach speed of the aircraft
- d) On night approaches only

**31. A ring laser gyro can measure:**

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- a) Rotation in all directions.
- b) Accelerations about its sensitive axis.
- c) Accelerations in all direction.
- d) Rotation about its sensitive axis.

**32. On overwater flights, an operator shall not operate an aeroplane, with 2 or more engines, unless carrying additional life saving equipment, at a distance away from land which is suitable for making an emergency landing, greater than that corresponding to:**

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- a) 200 NM or 45 minutes at cruising speed.
- b) 300 NM or 90 minutes at cruising speed.
- c) 100 NM or 30 minutes at cruising speed.
- d) 400 NM or 120 minutes at cruising speed.

**33. According to JAR-OPS 1, for aeroplanes with a maximum certificated take-off mass over 5700 kg, flight data recorders shall be capable of retaining the data recorded during at least the last:**

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- a) 25 hours of operation.
- b) 10 flights.
- c) 25 flights.
- d) 30 hours of operation.

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**34. 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

**35. What is the correct way for the pilot to acknowledge that ATIS Information Golf has been received:**

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- a) Information Golf
- b) We have the ATIS Golf
- c) We have the Information
- d) Weather Golf received

**36. The operating principle of a DME is the measurement of the:**

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- a) Frequency change between the emitted wave and reflected wave
- b) Frequency of the reflected wave
- c) Time between the transmission and reception of radio pulses
- d) 190 NM

**37. One of the errors inherent in a ring laser gyroscope occurs at low input rotation rates tending towards zero when a phenomenon known as 'lock-in' is experienced. What is the name of the technique, effected by means of a piezo-electric motor, that is used**

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- a) Zero drop
- b) Cavity rotation
- c) Beam lock
- d) Dither

**38. 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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**39. Refer to the General Student Pilot Route Manual - VFR Chart ED-4 Give the frequency of STUTTGART ATIS.**

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- a) 119.05 MHZ
- b) 135.775 MHz
- c) 116.12 kHz
- d) 126.12 MHz

**40. What does the phrase 'break break' mean?**

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- a) It indicates the separation between portions of a message transmitted to an aircraft station
- b) It indicates the separation between messages transmitted to different aircraft in a very busy environment
- c) My transmission is ended and I expect a response from you
- d) The exchange of transmissions is ended and no response is expected

**41. The length of a clearway may be included in:**

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- a) The take-off distance available
- b) The distance to reach V1
- c) The take-off run available
- d) The accelerate-stop distance available

**42. A pilot should not fly immediately after donating blood because:**

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- a) The chance you get the bends is higher after blood-donation
- b) You have an increased susceptibility to fainting
- c) Your heart rate is too low after blood-donation
- d) Your blood-pressure is too low after blood-donation

**43. Isolated thunderstorms of a local nature are generally caused by:**

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- a) Thermal triggering.
- b) Frontal lifting (cold front).
- c) Frontal lifting (warm front).
- d) Frontal occlusion.

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## 44. An aircraft shall display, if so equipped, an anti-collision light:

- a) While taxiing, but not when it is being towed
- b) Outside the daylight-period in flight, but not on the ground when it is being towed
- c) Outside the daylight-period at engine-start. During the daylight-period this is not applicable
- d) On the ground when the engines are running

## 45. During a flight at FL 100 from Marseille (QNH 1012 hPa) to Palma de Mallorca (QNH 1015 hPa), an aircraft remains at a constant true altitude. The reason for this is that:

- a) The air at Marseille is colder than that at Palma de Mallorca.
- b) The altimeters are erroneous, and need to be tested.
- c) One of the two QNH values may be incorrect.
- d) The air at Marseille is warmer than that at Palma de Mallorca.

## 46. What does the term 'air-ground communication' mean?

- a) One-way communication from aircraft to stations or locations on the surface of the earth
- b) One-way communication from stations or locations on the surface of the earth
- c) Two-way communication between aircraft and stations or locations on the surface of the earth
- d) Any communication from aircraft to ground station requiring handling by the Aeronautical Fixed Telecommunication Network (AFTN)

## 47. With regard to the practice of English, which of the following statements is correct?

- a) All pilots should master it because the aeronautical world needs one common language.
- b) The composition of every crew should be geared to a command of the official aeronautical language of the destination country.
- c) It is necessary and sufficient to have a command of any of the official languages of the ICAO.
- d) Be familiar with normal procedures in English since only this allows for effective management of any flight's communication.

## 48. The pressure altitude is the altitude corresponding:

- a) In ambient atmosphere, to the reference pressure Ps.
- b) In standard atmosphere, to the reference pressure Ps.
- c) In standard atmosphere, to the pressure Ps prevailing at this point.
- d) In ambient atmosphere, to the pressure Ps prevailing at this point.

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**49. Which of the following Annexes to the Chicago convention contains minimum specifications for a crew licence to have international validity?**

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

**50. In the ATC flight plan item 15, when entering a route for which standard departure (SID) and standard arrival (STAR) procedures exist:**

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- a) SIDs should be entered but not STARs
- b) Both should be entered in the ATC plan where appropriate
- c) Neither SID nor STAR should be entered
- d) STARS should be entered but not SIDs

**51. Who is responsible for providing an Operation Manual in accordance with OPS 1 Subpart P for the use and guidance of the operations personnel?**

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- a) The owner of the aircraft.
- b) The aircraft producer.
- c) The national authority.
- d) The aircraft operator.

**52. Which of these statements about a gust lock system are correct or incorrect? 1) A gust lock can be used in flight to reduce the effects of turbulence. 2) There is no need for a gust lock on reversible flight controls.**

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- a) 1) is incorrect, 2) is incorrect.
- b) 1) Is Correct, 2) Is Correct.
- c) 1) Is Incorrect, 2) Is Correct.
- d) 1) Is Correct, 2) Is Incorrect.

**53. What information may be displayed on an ATC radar screen connected only to a primary radar system?**

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- a) Aircraft position and SSR code.
- b) Aircraft position, SSR code and altitude.
- c) Aircraft position only.
- d) Aircraft altitude.

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**54. Which of the figures depicts an Electronic Flight Instrument System (EFIS) display in MAP mode?**

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

**55. See Flight Planning Manual SEP 1 Figure 2.5. Given: FL 75, Lean mixture, Full throttle, 2300 RPM. Take-off fuel: 444 lbs, Take-off from MSL. Find: Endurance in hours and minutes.**

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- a) 05 hours 12 minutes
- b) 05 hours 23 minutes
- c) 04 hours 42 minutes
- d) 05 hours 20 minutes

**56. What is the effect of tiredness on attention ?**

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- a) It increases the ability to manage multiple matters
- b) It reduces the ability to manage multiple matters
- c) It has no specific effects on attention
- d) It leads to one's attention being dispersed between different centres of interest

**57. Longitudinal separation minima based on distance using DME for aircraft at the same cruising level and track, provided that each aircraft utilises 'on Track' DME stations and separation is checked by obtaining simultaneous DME readings, is:**

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- a) 25 NM
- b) 10 NM
- c) 40 NM
- d) 20 NM

**58. Where, in relation to the runway, is the ILS localiser transmitting aerial normally situated?**

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- a) At the approach end of the runway about 300 m from touchdown on the centreline
- b) At the non-approach end about 150 m to one side of the runway and 300 m along the extended centreline
- c) On the non-approach end of the runway about 300 m from the runway on the extended centreline
- d) At the approach end about 150 m to one side of the runway and 300 m from touchdown

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**59. What does the word 'cancel' mean?**

- a) A change has been made to your last clearance
- b) Wait and I will call you
- c) Annul the previously transmitted clearance
- d) Consider that transmission as not sent

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**60. In twin-engine aeroplanes with right turning propellers**

- a) The left engine is the critical motor.
- b) The left engine produces a higher yaw moment if the right engine fails than vice versa.
- c) The right engine is the critical motor.
- d) The 'minimum control speed' is determined by the failure of the right engine.

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**61. Mass for individual passengers (to be carried on an aircraft) may be determined from a verbal statement by or on behalf of the passengers if the number of**

- a) Passengers carried is less than 6.
- b) Passenger seats available is less than 20.
- c) Passenger seats available is less than 10.
- d) Passengers carried is less than 20.

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**62. Which aeronautical chart symbol indicates an exceptionally high lighted obstacle?**

- a) 13
- b) 14
- c) 16
- d) 12

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**63. Regarding the operating system used for an on-board documentation (charts and company information):**

- a) There are no certification requirements
- b) The certification requirements are detailed in EUROCAE standards
- c) The certification requirements are detailed in CS 25/2
- d) The certification requirements are detailed in PART-CAT

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**64. Disturbance of the biological clock appears after a:**  
1. bad night's sleep  
2. day flight Amsterdam - New York  
3. day flight Amsterdam - Johannesburg  
4. night flight New York - Amsterdam

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- a) 2 and 4 are correct
- b) 1,2,3 and 4 are correct
- c) 1 and 3 are correct
- d) 1,2 and 3 are correct

**65. The OBS is set to 235°. The indications of the VOR are half full scale deflection left and 'to'. The aircraft is on the radial:**

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- a) 230°
- b) 050°
- c) 240°
- d) 100 NM

**66. Given the following data how much cargo must be moved from the forward hold to the aft hold to achieve a CG at 33% MAC?**  
AUM 20000kg  
Forward Hold Cargo 6500kg  
Aft hold Cargo 4000kg  
Distance between holds 10m  
Current CG: 30%MAC  
MAC 4.6m

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- a) 6000kg
- b) 2904kg
- c) 1467kg
- d) 2760kg

**67. An artificial feel unit is necessary in the pitch channel of a flight control system when:**

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- a) The elevators are actuated by irreversible servo-control units.
- b) There Is A Trimmable Stabilizer.
- c) The Elevators Are Fitted With Servo-tabs Or Trim Tabs.
- d) The Elevators Are Actuated By Reversible Servo-control Units.

**68. An aircraft on an IFR flight in VMC experiences radio communication failure. The aircraft is assumed to:**

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- a) Return to the aerodrome of departure
- b) Land at the alternate aerodrome
- c) Land at the nearest suitable aerodrome
- d) Land at the destination aerodrome

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**69. A jet aeroplane is climbing with constant IAS. Which operational speed limit is most likely to be reached?**

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- a) The Stalling speed
- b) The Maximum operating Mach number
- c) The Mach limit for the Mach trim system
- d) The Minimum control speed air

**70. A descent is planned from 7500 ft AMSL so as to arrive at 1000 ft AMSL 6 NM from a VORTAC. With a GS of 156 kts and a rate of descent of 800 ft/min. The distance from the VORTAC when descent is started is:**

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- a) 15,0 NM
- b) 27,1 NM
- c) With a GS of 156 kts and a rate of descent of 800 ft/min. The distance from the VORTAC when descent is started is: 15,0 NM 27,1 NM 30,2 NM
- d) 11,7 NM

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## Schema Risposte

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

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