

# Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

**01. For the purpose of completing the Mass and Balance documentation, the Traffic Load is considered to be equal to the Take-off Mass**

- a) Plus the Operating Mass.
- b) Plus the Trip Fuel Mass.
- c) Less the Operating Mass.
- d) Less the Trip Fuel Mass.

**02. The mass of an aircraft is 1950 kg. If 450 kg is added to a cargo hold 1.75 metres from the loaded centre of gravity (cg). The loaded cg will move:**

- a) 40 cm.
- b) 33 cm.
- c) 34 cm.
- d) 30 cm.

**03. The diagram shows three gyro assemblies: A, B and C. Among these gyros,-one is a roll gyro (noted 1)-one is a pitch gyro (noted 2)-one is a yaw gyro (noted 3)The correct matching of gyros and assemblies is:**

- a) 1B, 2A, 3C
- b) 1C, 2B, 3A
- c) Among these gyros,-one is a roll gyro (noted 1)-one is a pitch gyro (noted 2)-one is a yaw gyro (noted 3)The correct matching of gyros and assemblies is: 1B, 2A, 3C 1C, 2B, 3A 1A, 2B, 3C
- d) 1B, 2C, 3A

**04. The upper antenna of the TCAS II is:**

- a) Omni-directional because it is merged with the transponder antenna.
- b) Directional because it is merged with the transponder antenna.
- c) Directional to improve the surveillance of intruders.
- d) Omni-directional to improve the surveillance of intruders.

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**05. Given: True HDG = 307°, TAS = 230 kt, Track (T) = 313°, GS = 210 kt. Calculate the W/V?**

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- a) 255/25kt
- b) 257/35kt
- c) 265/30kt
- d) 260/30kt

**06. How should a pilot inform the ATS unit that their aircraft does not have 8.33 KHz capability?**

---

- a) We do not have this frequency
- b) Negative eight point three three
- c) Negative eight point three three frequency equipment
- d) My aircraft is not equipped with eight point three three

**07. The purpose of a voltage regulator is to control the output voltage of the:**

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- a) Generator at varying loads and speeds.
- b) TRU.
- c) Batteries at varying loads.
- d) Generators At Varying Speeds And The Batteries At Varying Loads.

**08. The maximum rate of climb that can be maintained at the absolute ceiling is:**

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- a) 0 fpm
- b) 100 fpm
- c) 500 fpm
- d) 125 fpm

**09. Medical examination is normally limited to those people arriving from an area infected with which of the following quarantinable diseases?**

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- a) Typhoid, cholera, yellow fever.
- b) Plague, cholera, yellow fever.
- c) Plague, cholera, malaria.
- d) Plague, cholera, typhoid.

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## 10. The objectives of ICAO was ratified by the:

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- a) Chicago convention 1944
- b) Geneva convention 1936
- c) Geneva convention 1948
- d) Warsaw convention 1929

## 11. Which of the following clouds are classified as medium level clouds in temperate regions?

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- a) CI, C
- b) SC, NS.
- c) SC, NS. AS, A
- d) CS, ST.

## 12. Fastair 345 has been instructed 'Standby 118.9 for TOWER'. What does this instruction mean?

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- a) Fastair 345 shall establish radio contact with TOWER on frequency 118.9
- b) Fastair 345 shall change to frequency 118.9 on which information is being broadcast
- c) Fastair 345 shall squawk standby and then establish radio contact with TOWER on frequency 118.9
- d) Fastair shall change to frequency 118.9 and listen out, but the TOWER will initiate further communications

## 13. How shall a pilot inform the control tower that they have to abandon the take-off manoeuvre:

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- a) Stopping
- b) Cancelling take-off
- c) Aborting take-off
- d) Abandoning take-off

## 14. What will be the effect on an aeroplane's performance if aerodrome pressure altitude is decreased?

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- a) It will decrease the take-off distance required
- b) It will increase the accelerate stop distance
- c) It will increase the take-off ground run
- d) It will increase the take-off distance required

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**15. An aeroplane whose maximum approved passenger seating configuration is 61 to 200 seats must be equipped with at least:**

---

- a) 2 Hand Fire-extinguishers Conveniently Located In The Passenger Compartment.
- b) 4 hand fire-extinguishers conveniently located in the passenger compartment.
- c) 3 hand fire-extinguishers conveniently located in the passenger compartment.
- d) 5 Hand Fire-extinguishers Conveniently Located In The Passenger Compartment.

**16. Other factors remaining constant, how does increasing altitude affect Vx and Vy in terms of TAS?**

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- a) Both will remain the same
- b) Both will decrease
- c) Both will increase
- d) Vx will decrease and Vy will increase

**17. What shall the pilot's readback be for 'climb to 2500 feet':**

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- a) Climbing to two thousand five hundred feet
- b) Climbing to two thousand five hundred
- c) Climbing to two point five
- d) Up to two thousand five hundred

**18. When an aircraft is no longer in distress, it shall transmit a message cancelling the distress condition. Which words shall this message include?**

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- a) ... MAYDAY, resuming normal operations
- b) ... MAYDAY cancelled
- c) ... cancel distress
- d) ... distress condition terminated

**19. At flight level and mach number constant, if OAT decreases, the CAS:**

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- a) Decreases.
- b) Increases.
- c) Decreases if OAT is lower than standard temperature, increases in the opposite case.
- d) Remains constant.

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## 20. Allowed traffic load is the difference between:

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- a) Allowed take off mass and basic empty mass.
- b) Allowed take off mass and basic empty mass plus trip fuel.
- c) Operating mass and basic empty mass.
- d) Allowed take off mass and operating mass.

## 21. What does the word 'acknowledge' mean?

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- a) Pass me the following information
- b) Repeat all of this message back to me exactly as received
- c) Let me know that you have received and understood this message
- d) Repeat all of your last transmission

## 22. In the absence of wind and without the astronomic precession effect, an aircraft would, at a constant gyro heading, follow a:

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- a) Rhumb line
- b) Great circle line
- c) Straight map line
- d) Spherical flight segment

## 23. A high pressure area (slack pressure gradient) covers part of the Mediterranean Sea and coastal region during the summer. What surface wind direction is likely at an airport at the coast on a sunny afternoon?

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- a) Land to sea.
- b) Sea to land.
- c) Parallel to the coastline.
- d) Variable.

## 24. An aircraft encountering radio communication failure on an IFR flight in IMC has to hold over the designated navigation aid serving the destination aerodrome:

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- a) 5 minutes in any case
- b) Under no circumstances
- c) 3 minutes, if an expected approach time is not acknowledged
- d) Until the expected approach time last received and acknowledged

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**25. The datum used for balance calculations is:**

- a) Chosen on the longitudinal axis of the aeroplane, and necessarily situated between the nose and the tail of the aircraft
- b) Chosen on the longitudinal axis of the aeroplane, but not necessarily between the nose and the tail of the aircraft
- c) Chosen on the longitudinal axis of the aircraft, and always at the fire-wall level
- d) Chosen on the longitudinal axis of the aircraft and necessarily situated between the leading edge and trailing edge of the wing

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**26. On a Direct Mercator chart at latitude of 45°N, a certain length represents a distance of 90 NM on the earth. The same length on the chart will represent on the earth, at latitude 30°N, a distance of:**

- a) 73.5 NM
- b) 78 NM
- c) 110 NM
- d) 45 NM

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**27. A public transport passengers aeroplane, with a seating configuration of more than 61 seats, must have in its passenger compartment(s), at least 3 hand fire-extinguishers including:**

- a) 1 halon fire-extinguisher or equivalent.
- b) 3 halon fire-extinguishers or equivalent.
- c) 2 halon fire-extinguishers or equivalent.
- d) No halon fire-extinguisher.

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**28. During a transoceanic and polar flight, the chart precession is a rotation in degrees, for a moving aircraft, of the gyro North with respect to the:**

- a) True North for a given chart
- b) Grid North for any chart
- c) True North for any chart
- d) Grid North for a given chart

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**29. What phrase shall be used when asking for the readability of a transmission?**

- a) Read back
- b) Report readability
- c) How do you read?
- d) Read you loud and clear

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**30. The Dry Operating Mass is the total mass of the aircraft ready for a specific type of operation but excluding**

---

- a) Usable fuel and traffic load.
- b) Usable fuel, potable water and lavatory chemicals.
- c) Potable water and lavatory chemicals.
- d) Usable fuel and crew.

**31. When flaps are extended in a straight and level flight at constant IAS, the lift coefficient will eventually:**

---

- a) Increase
- b) Decrease
- c) Remain the same
- d) First increase and then decrease

**32. In the cruise at FL 155 at 260 kt TAS, the pilot plans for a 500 feet/min descent in order to fly overhead MAN VOR at 2000 feet (QNH 1030). TAS will remain constant during descent, wind is negligible, temperature is standard. The pilot must start the descent at a distance from MAN of:**

---

- a) 110 NM
- b) 140 NM
- c) 130 NM
- d) 120 NM

**33. Which of the following combinations adversely affects take-off and initial climb performance?**

---

- a) High temperature and high relative humidity
- b) Low temperature and low relative humidity
- c) High temperature and low relative humidity
- d) Low temperature and high relative humidity

**34. When the intruding aircraft is equipped with a serviceable mode C transponder, the TCAS 2 (Traffic Collision Avoidance System) generates a:**

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- a) 'traffic advisory' and vertical 'resolution advisory'.
- b) 'traffic advisory', vertical and horizontal 'resolution advisory'.
- c) Vertical 'traffic advisory' and an horizontal 'resolution advisory'.
- d) 'traffic advisory' and horizontal 'resolution advisory'.

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**35. In case the transponder fails before the departure for an IFR flight, the pilot shall:**

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- a) Obtain prior permission by ATC to conduct the flight
- b) Inform ATC after departure
- c) Insert under item 18 of the flight plan 'transponder unserviceable'
- d) Inform FIS for relay to AIS

**36. A plain in Western Europe with an average height of 500 m (1600 FT) above sea level is covered with a uniform CC layer of cloud during the summer months. At what height above the ground is the base of this cloud to be expected?**

---

- a) 15000 - 35000 FT above the terrain
- b) 100 - 1500 FT above the terrain
- c) 1500 - 7000 FT above the terrain
- d) 7000 - 15000 FT above the terrain

**37. What is the most significant difference between an equatorial jet stream and all the other jet streams ?**

---

- a) Wind direction.
- b) Wind speed.
- c) Horizontal dimension.
- d) Vertical dimension.

**38. The convention on offences and certain acts committed on board aircraft, is:**

---

- a) The convention of Tokyo
- b) The convention of Chicago
- c) The convention of Rome
- d) The convention of Paris

**39. Given: X = Distance A to point of equal time (PET) between A and B  
E = Endurance  
D = Distance A to B  
O = Groundspeed 'on'  
H = Groundspeed 'back'  
The formula for calculating the distance X to point of equal time (PET) is:**

---

- a)  $X = D \times H / (O + H)$
- b)  $X = D \times O \times H / (O + H)$
- c)  $X = E \times H / (O + H)$
- d)  $X = D \times O / (O + H)$



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**40. Which aeronautical chart symbol indicates an aeronautical ground light?**

---

- a) 16
- b) 14
- c) 10
- d) 15

**41. With regard to the graph for the light twin aeroplane, will the accelerate and stop distance be achieved in a take-off where the brakes are released before take-off power is set?**

---

- a) No, the performance will be worse than in the chart
- b) It does not matter which take-off technique is being used
- c) Yes, the chart has been made for this situation
- d) Performance will be better than in the chart

**42. Aircraft struck by lightning may sometimes get considerable damage, and at least temporarily, the manoeuvring ability of the aircraft will be made more difficult. Which one of the following statements is correct?**

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- a) An aircraft made of metal has a certain capacity to attract lightning, but the lightning will follow the surface and therefore no damage will be caused
- b) An aircraft has in the atmosphere the same qualities as a 'Faraday cage', which means that a strike by lightning seldom occurs. But if it happens, the result will be an occasional engine failure. The crew may get a shock.
- c) Aircraft made of composite material may get severe damage, the crew may be blinded and temporarily lose hearing
- d) Aircraft made of composite material cannot conduct lightning and will therefore very seldom be struck

**43. The aircraft DME receiver is able to accept replies to its own transmissions and reject replies to other aircraft interrogations because:**

---

- a) Pulse pairs are amplitude modulated with the aircraft registration
- b) Aircraft interrogation signals and transponder responses are 63 MHz removed from each other
- c) The time interval between pulse pairs is unique to that particular aircraft
- d)  $\pm 8.0\text{nm}$  for 95% of the flight time.

**44. What is the influence of the mass on maximum rate of climb (ROC) speed if all other parameters remain constant?**

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- a) The ROC is affected by the mass, but not the ROC speed
- b) The ROC speed decreases with increasing mass
- c) The ROC and the ROC speed are independent of the mass
- d) The ROC speed increases with increasing mass

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**45. After alignment of the stable platform of an Inertial Navigation System, the output data from the platform is:**

---

- a) 1000 FT/MIN
- b) 2400 FT/MIN
- c) 1550 FT/MIN
- d) 1650 FT/MIN

**46. The advantages of alternating current on board an aircraft are:1. simple connection2. high starting torque3. flexibility in use4. lighter weight of equipment5. easy to convert into direct current6. easy maintenance of machinesThe combination of correct statements is:**

---

- a) 1, 2, 3, 4, 5, 6
- b) 3, 4, 5, 6
- c) 1, 4, 2006
- d) 1, 2, 3, 5, 6

**47. Select the answer which you consider will complete correctly the following statement in relation to the main pressure systems affecting the North Atlantic region between 30°N and 65°N. During winter the predominant mean low pressure system at the surface is usually centred over**

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- a) Iceland / Greenland
- b) Azores
- c) Siberia
- d) USA

**48. Barotrauma caused by gas accumulation in the stomach and intestines can lead to:**

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- a) Barotitis
- b) Pressure pain or flatulence
- c) Barosinusitis
- d) Decompression sickness

**49. The commander is required by the authority to present the aircraft documents. He**

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- a) Can request a delay of 48 hours.
- b) Shall do so, within a reasonable period of time.
- c) Shall do so if authorised by the operator.
- d) Can refuse to present them.

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**50. The minimum climb gradient required on the 2nd flight path segment after the take-off of a jet aeroplane is defined by the following parameters:**1 Gear up2 Gear down3 Wing flaps retracted4 Wing flaps in take-off position 5 N engines at the take-off thrust6 (N- 1) engines at the take-off thrust7 Speed over the path equal to  $V_2 + 10$  kt 8 Speed over the path equal to  $1.3 V_S$ 9 Speed over the path equal to  $V_2$ 10 At a height of 35 ft above the runway **The correct statements are:**

---

- a) 1, 4, 5, 10
- b) 2, 3, 6, 9
- c) 1, 5, 8, 10
- d) 1, 4, 6, 9

**51. In VMC, a runway should not be chosen as preferential for noise abatement procedures when:**

---

- a) Cross-wind component, including gusts, is 10 kt or less
- b) It has no ILS or visual approach slope guidance
- c) Tail wind component, including gusts, is less than 4 kt
- d) It has a tail wind regardless its magnitude

**52. On the Significant Weather Chart, we see the following indications: SCT CU 060/100**The forecast charts for FL 050 and FL 100 both indicate a wind from  $320^\circ/15$  kt. In flight at FL 055 over an area of plains (flat country) during the validity period of the Significant Weather Chart, we observe moderate turbulence. This turbulence is caused by

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- a) The instability of the air mass between the surface and the top of Cumulus clouds.
- b) The surface radiation.
- c) A wind shear.
- d) System waves.

**53. What does the abbreviation 'MLS' mean:**

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- a) Mean sea level
- b) Minimum safe level
- c) Minimum sector level
- d) Microwave landing system

**54. Among the following, select the ATC unit in charge of controlling the traffic:**

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- a) AFIS
- b) ATIS
- c) AIS
- d) Departure

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**55. One negative aspect of the highly automated cockpit results in:**

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- a) Pilots disregarding the automatic equipment
- b) Complacency among the crewmembers
- c) Less experienced crews because of more transparent system details
- d) Constantly high crew overload with regard to the monitoring tasks

**56. Between which latitudes are you most likely to find the subtropical high-pressure belt ?**

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- a) 35° - 55°.
- b) 10° - 15°.
- c) 55° - 75°.
- d) 25° - 35°.

**57. When flying at night the first sense to be affected by a slight degree of hypoxia is the**

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- a) Sense of balance
- b) Cochlea
- c) Proprioceptive sensitivity
- d) Vision

**58. If an aircraft maintaining a constant CAS and flight level is flying from a cold air mass into warmer air:**

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- a) TAS decreases.
- b) Mach number increases.
- c) Mach number decreases.
- d) TAS increases.

**59. A TCAS 2 (Traffic Collision Avoidance System) provides:**

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- a) A simple intruding airplane proximity warning.
- b) The intruder relative position and possibly an indication of a collision avoidance manoeuvre within the vertical plane only.
- c) The intruder relative position and possibly an indication of a collision avoidance manoeuvre within the horizontal plane only.
- d) The intruder relative position and possibly an indication of a collision avoidance manoeuvre within both the vertical and horizontal planes.

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## 60. Long range cruise is selected as

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- a) The climbing cruise with one or two engines inoperative.
- b) The speed for best economy.
- c) Specific range with tailwind.
- d) The higher speed to achieve 99% of maximum specific range in zero wind.

## 61. An aircraft squawking 7700 indicates to the ground station that:

---

- a) The aircraft's transceiver is unserviceable.
- b) The aircraft is in distress.
- c) The aircraft is being hijacked.
- d) There is a sick passenger on board.

## 62. On a Lambert chart (standard parallels 37°N and 65°N), with respect to the straight line drawn on the map between A ( N49° W030°) and B (N48° W040°), the:

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- a) Great circle and rhumb line are to the south
- b) Rhumb line is to the north, the great circle is to the south
- c) Great circle is to the north, the rhumb line is to the south
- d) Great circle and rhumb line are to the north

## 63. In a free turbine engine:

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- a) Its Power Output Shaft May Be Connected To Either A Compressor Or Another Turbine.
- b) The air enters the compressor via the turbine inlet.
- c) There is no mechanical connection between the compressor and the power output shaft.
- d) The Compressor And Power Output Shaft Are Mechanically Connected.

## 64. Refer to CAP697 Section 4 - MRJT1 Figures 4.5.2 and 4.5.3.4 Given: Distance C - D: 540 NMCruise 300 KIAS at FL 210 Temperature Deviation from ISA: +20°C Headwind component: 50 ktGross mass at C: 60 000 kgThe fuel required from C to D is:

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- a) 4242 kg
- b) 3350 kg
- c) 3680 kg
- d) 4620 kg

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**65. The most dangerous form of airframe icing is**

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- a) Hoar frost.
- b) Dry ice.
- c) Clear ice.
- d) Rime ice.

**66. With the development of a thunderstorm, at what stage will there be only updraughts of air?**

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- a) Mature stage
- b) Anvil stage
- c) Initial stage
- d) Dissipating stage

**67. In the ATC flight plan Item 15, a cruising speed of 470 knots will be entered as:**

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- a) N0470
- b) N470
- c) 0470K
- d) KN470

**68. During a phugoid the speed:**

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- a) Remains approximately constant, as during a short period oscillation.
- b) Varies significantly, whereas during a short period oscillation it does not.
- c) Remains approximately constant, whereas during a short period oscillation it varies significantly.
- d) Varies significantly, as during a short period oscillation.

**69. At reference or use of Performance Manual MEP 1 Figure 3.2 Given: OAT: 25°C Pressure Altitude: 3000 ft RWY: 24L Wind: 310°/20kts Take off Mass: 4400 lbs Heavy Duty Brakes installed. Other conditions as associated in the header of the graph. What is the Accelerate and Stop Distance under the conditions given?**

---

- a) 3750 ft
- b) 3350 ft
- c) 4000 ft
- d) 4300 ft

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## 70. The Primary Flight Display (PFD) displays information dedicated to:

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- a) Piloting.
- b) Systems.
- c) Engines and alarms.
- d) Weather situation.

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## Schema Risposte

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

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