

# Simulazione di Esame

VFR Communications - ATPL - Airline Transport Pilot Licence, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

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

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

**02. To optimise one's night-vision performance, it is necessary:- 1: to spend some time getting adapted to low levels of illumination- 2: to increase the instrument panel lighting by reducing the cockpit lighting- 3: not to focus on the point to be observed- 4: to avoid blinding sources of light**

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

**03. The speed V2 is defined for jet aeroplane as:**

- a) Take-off decision speed
- b) Lift off speed
- c) Critical engine failure speed
- d) Take-off climb speed or speed at 35'

**04. What is the effect of a head wind component, compared to still air, on the maximum range speed (IAS) and the speed for maximum climb angle respectively?**

- a) Maximum range speed decreases and maximum climb angle speed increases
- b) Maximum range speed decreases and maximum climb angle speed decreases
- c) Maximum range speed increases and maximum climb angle speed stays constant
- d) Maximum range speed increases and maximum climb angle speed increases

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**05. Given: Runway direction 210°(M), Surface W/V 230°(M)/30kt. Calculate the cross-wind component?**

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- a) 16 kt
- b) 19 kt
- c) 13 kt
- d) 10 kt

**06. On a polar stereographic chart, the initial great circle course from A 70°N 060°W to B 70°N 060°E is approximately:**

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- a) 330° (T)
- b) 030° (T)
- c) 210° (T)
- d) 150° (T)

**07. Which of the following statements about the spin is correct?**

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- a) An aeroplane is prone to spin when the stall starts at the wing root
- b) In the spin, airspeed continuously increases
- c) During spin recovery the ailerons should be kept in the neutral position
- d) Every aeroplane should be designed such that it can never enter a spin

**08. . Basic Empty Mass is:**

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- a) Dry Operating Mass minus fuel load.
- b) Dry Operating Mass minus traffic load.
- c) A component of Dry Operating Mass.
- d) The actual take-off mass minus traffic load.

**09. A flight has to be made with a multi engine piston aeroplane (MEP 1 Fig. 3. 3). For the fuel calculations take 5 US gallons for the taxi, and an additional 13 minutes at cruise condition to account for climb and descent. Calculated time overhead to overhead is 2h37min. Power setting is 65%, 2500 RPM. Calculated reserve fuel is 30% of the trip fuel. FL 120. Temperature 1°C. Find the minimum block fuel.**

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- a) 91 US gallons
- b) 118 US gallons
- c) Find the minimum block fuel. 91 US gallons 118 US gallons 76 US gallons
- d) 86 US gallons

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**10. The great circle bearing of position B from position A in the Northern Hemisphere is 040°. If the conversion angle is 4°, what is the great circle bearing of A from B?**

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- a) 212°
- b) 228°
- c) 224°
- d) 220°

**11. Below 70,000 ft., what gas makes up the major part of the atmosphere ?**

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- a) Oxygen
- b) Nitrogen
- c) Ozone
- d) Carbon dioxide

**12. What is the name of the wind or air mass which gives to the main part of India its greatest proportion of precipitation?**

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- a) South-east trade wind.
- b) Indian, maritime tropical air mass.
- c) Winter monsoon.
- d) South-west monsoon.

**13. When the term 'Scattered' is used in an aviation routine weather report (METAR), the amount of clouds covering the sky is:**

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- a) More than half but less than overcast (5 to 7 oktas)
- b) Half or less than half (3 or 4 oktas)
- c) No clouds below 5000 feet/GND
- d) Sky entirely covered (8 oktas)

**14. In relation to the NAVSTAR/GPS satellite navigation system, what is involved in the differential technique (D-GPS)?**

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- a) Receivers from various manufacturers are operated in parallel to reduce the characteristic receiver noise error
- b) The difference between signals transmitted on the L1 and L2 frequencies are processed by the receiver to determine an error correction
- c) Signals from satellites are received by 2 different antennas which are located a fixed distance apart. This enables a suitable receiver on the aircraft to recognise and correct for multipath errors
- d) Monitor the orbital planes of the satellites

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**15. In which of these temperature bands is ice most likely to form on the aircraft's surface?**

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- a) +10°C to 0°C
- b) -20°C to -35°C
- c) 0°C to -10°C
- d) -35°C to -50°C

**16. Which statement with respect to the speed of sound is correct ?**

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- a) Varies with the square root of the absolute temperature.
- b) Doubles if the temperature increases from 9° to 36° Centigrade.
- c) Is independent of altitude.
- d) Increases always if the density of the air decreases.

**17. An island is observed to be 15° to the left. The aircraft heading is 120°(M), variation 17°(W). The bearing °(T) from the aircraft to the island is:**

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- a) 122
- b) 268
- c) 088
- d) 302

**18. During deceleration following a landing in a westerly direction, a magnetic compass made for the southern hemisphere indicates:**

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- a) No apparent turn.
- b) An apparent turn to the south.
- c) No apparent turn only on southern latitudes.
- d) An apparent turn to the north.

**19. Which of the following cloud types is a medium level cloud ?**

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- a) CS
- b) ST
- c) AS
- d) SC

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**20. Moment (balance) arms are measured from a specific point to the body station at which the mass is located. That point is known as**

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- a) The focal point.
- b) The datum.
- c) The centre of gravity of the aircraft.
- d) The axis.

**21. 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.

**22. The diagram which shows a 40° left bank and 15° nose down attitude is n°**

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

**23. Most large conventional aeroplanes are not provided with aileron and rudder trim tabs. Is it still possible to trim these control surfaces?**

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- a) Yes, trimming is possible by adjusting the neutral point of the artificial feel mechanism by means Of a trim switch.
- b) No, Because Without Trim Tabs Trimming Is Not Possible.
- c) Yes, But Trimming Is Only Possible When Before The Flight, The Respective Auxiliary Surfaces Are Correctly Adjusted For Cruising Conditions By The Maintenance Department.
- d) Yes, But Trimming Is Only Possible When The Autopilot Is Engaged.

**24. 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

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## 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: 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

## 27. A Foehn wind occurs on the

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- a) Windward side of a mountain range and is caused by surface heating
- b) Leeward side of a mountain range and is caused by significant moisture loss by precipitation from cloud
- c) Leeward side of a mountain range and is caused by the condensation level being lower on the leeward side than on the windward side
- d) Windward side of a mountain range and is caused by surface cooling and reverse air flow

## 28. What does the word 'check' mean?

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- a) Confirm your last transmission
- b) Read back my last instruction
- c) Examine a system or procedure
- d) I understand your message

## 29. Which area of a polar front jet stream in the northern hemisphere has the highest probability of turbulence?

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- a) Looking downstream, the area to the right of the core.
- b) In the core of the jet stream.
- c) Looking downstream, the area to the left of the core.
- d) Above the core in the boundary between warm and cold air.

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## 30. The capacity of the short-term memory is:

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- a) About 30 items
- b) Very limited - only one item
- c) Unlimited
- d) About 7 items

## 31. 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

## 32. In case of engine failure during flight the blades of a constant speed propeller in a single engine aeroplane, not fitted with feathering system

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- a) Move In Low Pitch Position By Oil Pressure Created By The Windmilling Propeller.
- b) Move in the lowest pitch position by the centrifugal force and/or the spring force .
- c) Move in the highest pitch position by the aerodynamic force.
- d) Move In A Certain Pitch Position Depending On Windmilling Rpm.

## 33. The sequence of the automatic landing comprises several phases (from final approach to touch-down) actuated by:

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- a) The distance left before the touch down zone.
- b) The radio altimeter.
- c) The DME (Distance Measuring Equipment) of the ILS (Instrument Landing System).
- d) The altimeter set to the QNH.

## 34. An aeroplane has a stall speed of 100 kt at a mass of 1000 kg. If the mass is increased to 2000 kg, the new value of the stall speed will be:

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- a) 141 KT
- b) 123 KT
- c) 150 KT
- d) 200 KT

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## 35. Density Altitude:

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- a) Is equal to the pressure altitude
- b) Is used to establish minimum clearance of 2000' over mountains
- c) Is used to determine the aeroplane performance
- d) Is used to calculate the FL above the Transition Altitude

## 36. When turning in IMC , head movements should be avoided as much as possible. This is a prevention against:

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- a) Coriolis illusion
- b) Pressure vertigo
- c) Oculogyral illusion
- d) Autokinesis

## 37. Which phrase shall be used if you want to say: "Communication is difficult. Please send every word or group of words twice"?

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- a) Say again, say again
- b) Repeat twice
- c) Words twice
- d) Message second time

## 38. A pilot wishes to turn left on to a southerly heading with 20° bank at a latitude of 20° North. Using a direct reading compass, in order to achieve this he must stop the turn on an approximate heading of:

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- a) 160°
- b) 170°
- c) 200°
- d) 190°

## 39. An increase in atmospheric pressure has, among other things, the following consequences on take-off performance:

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- a) An increases take-off distance and degraded initial climb performance
- b) An increased take-off distance and improved initial climb performance
- c) A reduced take-off distance and improved initial climb performance
- d) A reduced take-off distance and degraded initial climb performance



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## 40. The airload on the horizontal tailplane (tailload) of an aeroplane in straight and level flight:

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- a) Is in general directed downwards and will become less negative when the c.g. moves aft.
- b) Is in general directed downwards and will always become less negative in a linear fashion with increasing airspeed.
- c) Will in principle be zero on transport aeroplanes without an electronic flight control system (Fly- by-Wire) due to the trim system.
- d) Is in general directed upwards and will increase when c.g. is moved forward.

## 41. 'Standard Mass' as used in the computation of passenger load establish the mass of a child as

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- a) 35 kg only if they are over 2 years old and occupy a seat.
- b) 35 kg irrespective of age provided they occupy a seat.
- c) 35 kg for children over 2 years occupying a seat and 10 kg for infants (less than 2 years) occupying a seat.
- d) 35 kg for children over 2 years occupying a seat and 10 kg for infants (less than 2 years) not occupying a seat.

## 42. What is the audio frequency of the inner marker?

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- a) 3000 Hz
- b) 75 MHz
- c) 1300 Hz
- d) 400 Hz

## 43. For a pressurised aircraft, the first-aid oxygen is designed to:

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- a) Protect all the occupants against the effects of accidental depressurisation.
- b) Protect the flight crew and cabin attendants against fumes and noxious gases.
- c) Provide oxygen to 10% of passengers at a cabin altitude exceeding 13000 ft after 30 minutes.
- d) Provide undiluted oxygen to passengers for physiological reasons following a cabin depressurisation.

## 44. Which of the statements about computer architecture are correct or incorrect? 1) The software part includes the programs that make up the operating system (OS). 2) The hardware part includes the physical components of the computer.

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- a) 1) is correct, 2) is correct
- b) 1) is incorrect, 2) is correct
- c) 1) is incorrect, 2) is incorrect
- d) 1) is correct, 2) is incorrect

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**45. The angle of attack of a blade section is the angle between the chord line and the:**

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- a) Induced airflow.
- b) Rotational airflow.
- c) Plane of rotation.
- d) Relative airflow.

**46. From which of the following would you expect to find facilitation information regarding customs and health formalities ?**

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- a) NAV/RAD charts
- b) ATCC
- c) AIP
- d) NOTAM

**47. The optimum altitude:**

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- a) Decreases as mass decreases
- b) Increases as mass decreases and is the altitude at which the specific range reaches its maximum
- c) Is the altitude up to which cabin pressure of 8 000 ft can be maintained
- d) Is the altitude at which the specific range reaches its minimum

**48. A jet transport has the following structural limits:-Maximum Ramp Mass: 63 060 kg-Maximum Take Off Mass: 62 800 kg-Maximum Landing Mass: 54 900 kg-Maximum Zero Fuel Mass: 51 300 kgThe aeroplane's fuel is loaded accordance with the following requirements:-Taxi fuel: 400 kg-Trip fuel: 8400 kg-Contingency & final reserve fuel: 1800 kg-Alternate fuel: 1100 kgIf the Dry Operating Mass is 34930 kg, determine the maximum traffic load that can be carried on the flight if departure and landing airfields are not performance limited.**

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- a) 16 430 kg
- b) 17 070 kg
- c) 16 370 kg
- d) 16 570 kg

**49. The DME (Distance Measuring Equipment) operates within the following frequencies:**

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- a) 329 to 335 MHz
- b) 108 to 118 MHz
- c) 962 to 1213 kHz.
- d) Greater detail can be obtained at the more distant ranges of the smaller water droplets

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**50. The heading read on the dial of a directional gyro is subject to errors, one of which is due to the movement of the aircraft. This error...**

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- a) Is, in spite of this, insignificant and may be neglected
- b) Is at its greatest value when the aircraft follows a meridional track
- c) Is dependent on the ground speed of the aircraft, its true track and the average latitude of the flight
- d) Shows itself by an apparent rotation of the horizontal axis of the gyroscope which seems to turn at 15° per hour to the right in the northern hemisphere

**51. Which measure(s) will help to compensate for hypoxia? 1. Descend below 10 000 FT. 2. Breathe 100 % oxygen. 3. Climb to or above 10 000 FT. 4. Reduce physical activities.**

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

**52. Which of the following cloud types is most readily detected by airborne weather radar when using the 'weather beam'?**

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- a) Cirrocumulus
- b) Stratus
- c) Cumulus
- d) 2.5° up

**53. In large modern aircraft, in the air conditioning system, reduction of air temperature and pressure is achieved by:**

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- a) An expansion turbine.
- b) An evaporator.
- c) A condenser.
- d) A Compressor.

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**54. An aircraft which is being subjected to unlawful interference ('hijacked') and is forced to divert from the cleared track or cruising level without being able to communicate with ATS shall try to:**

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- a) Fly the emergency triangle
- b) Declare an emergency
- c) Continue at an altitude that differs from the semicircular rule with 1000 feet when above FL 290 and 500 feet when lower than FL 290
- d) As soon as possible commence emergency descent in order to minimise the difference between cabin pressure and outside pressure

**55. The applicant for an Airline Transport Pilot Licence shall have completed in aeroplanes not less than ..... hours of cross-country flight time, of which not less than ..... hours shall be as pilot-in command or co-pilot performing, under the supervision of the pilot in command, the duties and functions of a pilot in command, provided that the method of supervision employed is acceptable to the licensing authority. The state above hours are respectively:**

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- a) 200 hours and 100 hours
- b) 200 hours and 75 hours
- c) 150 hours and 75 hours
- d) 250 hours and 10 hours

**56. Refer to the General Student Pilot Route Manual - VFR Chart ED-4: Flying from SAULGAU airport (48°02'N, 009°31'E) to ALTENSTADT airport (47°50'N, 010°53'E). Find magnetic course and the distance.**

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- a) Magnetic course 282°, distance 112 KM
- b) Magnetic course 092°, distance 82 NM
- c) Magnetic course 091°, distance 54 NM
- d) Magnetic course 078°, distance 82 NM

**57. Refer to CAP698 Section 3 - MEP1 Figure 3.1 Normal Procedure Given: OAT 24 °C Pressure Altitude: 3000' RWY, 12L Wind 080/12 K Take-off Mass: 3800 lbs Other conditions as associated in the header of the graph. What is the take-off distance over a 50 ft obstacle?**

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- a) 1950 ft
- b) 1420 ft
- c) 1600 ft
- d) 1700 ft

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**58. In an ATC flight plan, Item 15 (route), a cruising pressure altitude of 32000 feet would be entered as:**

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- a) S3200
- b) FL320
- c) 32000
- d) F320

**59. Which of the following cloud is classified as low level cloud?**

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- a) AS
- b) CS
- c) CC
- d) ST

**60. High speed buffet is induced by**

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- a) Boundary layer control.
- b) Expansion waves on the wing upper surface.
- c) Boundary layer separation due to shock wave formation.
- d) A shift of the centre of gravity.

**61. Low speed pitch up is caused by the:**

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- a) Spanwise flow on a swept back wing
- b) Mach trim system
- c) Wing tip vortex
- d) Spanwise flow on a swept forward wing

**62. Which speed provides maximum obstacle clearance during climb?**

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- a)  $V_2 + 10$  KT
- b) The speed for which the ratio between rate of climb and forward speed is maximum
- c)  $V_2$
- d) The speed for maximum rate of climb

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## 63. What is "conversion angle":

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- a) The angular difference between the rhumb line and the great circle between two positions, measured at any of the two positions.
- b) The angle at which speech from another person enters the ear.
- c) The angle used to convert from true to compass directions.
- d) The difference between the rhumb line and the great circle directions.

## 64. Is there any difference between the vertical speed versus forward speed curves for two identical aeroplanes having different masses ? (assume zero thrust and wind)

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- a) Yes, the difference is that the heavier aeroplane will always glide a greater distance.
- b) No difference.
- c) Yes, the difference is that the lighter aeroplane will always glide a greater distance.
- d) Yes, the difference is that for a given angle of attack both the vertical and forward speeds of the heavier aeroplane will be larger.

## 65. A load placed aft of the datum:

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- a) Has a negative arm and therefore generates a negative moment and mass
- b) Has a negative arm and therefore generates a negative moment but a positive mass
- c) Has a positive arm and therefore generates a positive moment
- d) Has a positive arm and therefore generates a positive moment but negative mass

## 66. Which condition is requested so that an aerodrome may be considered controlled?

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- a) The aerodrome shall be located within a Control Zone (CTR) and provided with a Control Tower.
- b) The aerodrome shall be provided with a Control Tower.
- c) The aerodrome shall be located within a controlled airspace.
- d) The aerodrome shall be located within a Control Zone.

## 67. Find the OPTIMUM ALTITUDE for the twin jet aeroplane. Given: Cruise mass=50000 kg, .78 MACH

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- a) 36700 ft
- b) 36200 ft
- c) Maximum operating altitude
- d) 35500 ft[see Annex]

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**68. Refer to Student Pilot Route Manual Amsterdam, Schipol (Plate 10- 3):Which of the following statements is correct for ANDIK departures from runway 19L?**

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- a) Contact SCHIPOL DEPARTURE 119.05 passing 2000 ft and report altitude
- b) Maximum IAS 250kt turning left at SPL 3.1 DME
- c) The distance to ANDIK is 25 NM
- d) Cross ANDIK below FL60[see Annex]

**69. What does the phrase 'Roger' mean:**

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- a) A direct answer in the affirmative
- b) A direct answer in the negative
- c) I have received all of your last transmission
- d) Cleared for take-off or cleared to land

**70. Which of the following statements concerning the variation in wind speed between summer and winter on the North Atlantic between FL 300 and FL 400 is most correct?**

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- a) The average westerly component is greater in the winter than in the summer. The latitude of the axis of greatest seasonal wind speed is further south in winter than in summer
- b) The average westerly component is greater in the summer than in the winter. The latitude of the axis of greatest wind speed is also further north in summer than in winter
- c) The average westerly component remains the same but the altitude of greatest wind speed reduces in winter
- d) The average westerly component remains the same but the axis of greatest speeds moves south in winter

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## Schema Risposte

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

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