

# Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

## 01. 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.

## 02. The pitch angle of a constant-speed propeller

- a) Only Varies With Engine Rpm.
- b) Decreases with increasing true air speed.
- c) Increases with increasing true air speed.
- d) Is Independent Of The True Air Speed.

## 03. The frequency 121.500 MHz is designated as:

- a) A frequency for air-to-air communication
- b) An international emergency frequency
- c) An airline operation frequency
- d) A regional UHF frequency

## 04. The principle of the Schuler pendulum is used in the design of a:

- a) Strapdown inertial system.
- b) Artificial horizon control system.
- c) Directional gyro control system.
- d) Stabilised platform inertial system.

## 05. A high aspect ratio wing produces:

- a) A decrease in stall speed
- b) Less sensitivity to gust effects
- c) An increase in induced drag
- d) A decrease in induced drag

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**06. The manoeuvrability of an aeroplane is best when the:**

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- a) Speed is low.
- b) G. position is on the forward G. limit. G. is on the aft G. limit.
- c) Flaps are down.

**07. If the static source to an airspeed indicator (ASI) becomes blocked during a descent the instrument will:**

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- a) Read zero
- b) Continue to indicate the speed applicable to that at the time of the blockage
- c) Over-read
- d) Under-read

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

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

**09. Dry Operating Mass is the mass of the aircraft less**

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

**10. The use of igniters is necessary on a turbo-jet 1 - throughout the operating range of the engine 2 - for ground starts 3 - for accelerations 4 - for in-flight relights 5 - during turbulence in flight 6 - in heavy precipitation or in icing condition The combination which regroups all of the correct statements is:**

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- a) 2, 4, 5, 6
- b) 1, 2, 3, 6
- c) 2, 3, 2004
- d) 3 And 6 Only

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**11. The normal sleep cycle is approximately every .....minutes**

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- a) 120
- b) 60
- c) 180
- d) 90

**12. Which of the following abilities will not improve efficient decision making on the cockpit?**

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- a) Ability to persuade others to follow your own point of view.
- b) Ability to think ahead and specify alternative courses of action.
- c) Ability to search for and examine all available information regarding a situation.
- d) Communicational skills and social competence.

**13. Aerodrome traffic is:**

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- a) All traffic on the manoeuvring area and flying in the vicinity of an aerodrome.
- b) All traffic in the aerodrome circuit.
- c) All traffic on the movement area and flying in the vicinity of an aerodrome.
- d) All traffic on the manoeuvring area.

**14. During a conventional approach, the Minimum Descent Height (MDH) is referred to the runway threshold altitude and not to the aerodrome altitude if the runway threshold is at more than:**

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- a) 2 m (7 ft) below the aerodrome altitude
- b) 4 m (14 ft) below the aerodrome altitude
- c) 2 m (7 ft) above the aerodrome altitude
- d) 4 m (14 ft) above the aerodrome altitude

**15. The errors of a motor programme are:**

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- a) Habituation and Error of Commission
- b) Action Slip and Error of Commission
- c) Action Slip and Environmental Capture (Habituation)
- d) Confirmation error and Error of Commission

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## 16. A higher outside air temperature (OAT):

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- a) Increases the climb limited take-off mass
- b) Increases the field length limited take-off mass
- c) Decreases the take-off distance
- d) Decreases the brake energy limited take-off mass

## 17. The total mass of an aeroplane is 145000 kg and the centre of gravity limits are between 4.7 m and 6.9 m aft of the datum. The loaded centre of gravity position is 4.4 m aft. How much mass must be transferred from the front to the rear hold in order to bring the out of limit centre of gravity position to the foremost limit:

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- a) 3 500 kg
- b) 35 000 kg
- c) 7 500 kg
- d) 62 500 kg

## 18. What does the word "NEGATIVE" mean?

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- a) Proposed action granted.
- b) Permission not granted.
- c) Consider that transmission as not sent.
- d) Disregard last instruction.

## 19. An operator can operate an aeroplane certificated to JAR25, across an area in which search and rescue would be especially difficult, without additional survival equipment if it flies away from an area suitable for making an emergency landing at a distance corresponding to no more than:

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- a) 90 minutes at cruising speed.
- b) 120 minutes at cruising speed.
- c) 30 minutes at cruising speed.
- d) 60 minutes at cruising speed.

## 20. During a glide at constant Mach number, the pitch angle of the aeroplane will:

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- a) Increase
- b) Increase at first and decrease later on
- c) Decrease
- d) Remain constant

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**21. The fuselage structure of a pressurised transport aeroplane is an example of a:**

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- a) Semi-monocoque structure.
- b) Truss type structure.
- c) Pure monocoque structure.
- d) Sandwich Structure.

**22. In the Air Almanac the highest time difference listed for difference between UTC and Standard time is maximum:**

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- a) 13 hours.
- b) 24 hours.
- c) 6 hours.
- d) 12 hours.

**23. The induced drag of an aeroplane:**

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- a) Decreases with increasing gross weight
- b) Is independent of the airspeed
- c) Decreases with increasing airspeed
- d) Increases with increasing airspeed

**24. The equivalent of 70 m/sec is approximately:**

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

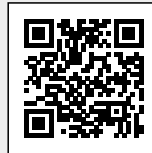
**25. During take-off you notice that, for a given elevator input, the aeroplane rotates much more rapidly than expected. This is an indication that :**

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- a) The centre of gravity may be towards the aft limit.
- b) The centre of pressure is aft of the centre of gravity.
- c) The centre of gravity is too far forward.
- d) The aeroplane is overloaded.

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**26. The true course is 042°. The variation in the area is 6° W and the wind is calm. The deviation card is reproduced in the annex. In order to follow this course, the pilot must fly a compass heading of:**

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- a) 040°
- b) 058°
- c) 044°
- d) 052°

**27. During a flight over the sea at FL 135, the true altitude is 13500 feet**

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- a) Local QNH is 1019 hPa. What information, if any, can be gained about the air mass in which the aircraft is flying?
- b) Its average temperature is the same as ISA
- c) It is warmer than ISA
- d) It is colder than ISA

**28. One purpose of a compass calibration is to reduce the difference, if any, between:**

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- a) True north and magnetic north.
- b) Compass north and true north.
- c) Compass north and the lubber line.
- d) Compass north and magnetic north.

**29. If the climb speed schedule is changed from 280/.74 to 290/.74 the new crossover altitude will be:**

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- a) Higher
- b) Lower
- c) Only affected by the aeroplane gross mass
- d) Unchanged

**30. Given an aeroplane with irreversible primary flight controls, how is control maintained if one hydraulic system is lost due to a hydraulic leak?**

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- a) The remaining systems will take over control.
- b) By Switching The Flight Control System To The Reversible Mode.
- c) Sufficient Reserve Hydraulic Fluid Is Available To Compensate The Effects Of The Leak.
- d) By Switching To Manual Back-up Mode.

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## 31. Static lateral stability should not be too small, because:

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- a) The aeroplane would show too strong a tendency to spiral dive
- b) The aeroplane would show too strong a tendency for Dutch Roll
- c) The stick force per g would become unacceptably small
- d) After a disturbance around the longitudinal axis the aeroplane would show too strong a tendency to return to the original attitude

## 32. The safety precautions to be taken whenever using oxygen are 1. refrain from smoking, avoid sparks. 2. Avoid operation of radio communication equipment. 3. Operate oxygen system valves slowly. 4 . Avoid greasy matter The combination regrouping all the correct statements is:

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- a) 1, 3, 4.
- b) 1, 2, 2004.
- c) 2, 3, 2004.
- d) 1, 2, 2003.

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

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

## 34. Concerning the NAVSTAR/GPS satellite navigation system, what is the meaning of the term 'Receiver Autonomous Integrity Monitoring' (RAIM)?

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- a) It is a technique by which a receiver ensures the integrity of the navigation information
- b) It is a technique whereby the receivers of the world-wide distributed monitor stations (ground segment) automatically determines the integrity of the navigation message
- c) It is a method whereby a receiver ensures the integrity of the Pseudo Random Noise (PRN) code transmitted by the satellites
- d) 6

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**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. What is the the worst hazard, if any, that could be associated with the type of feature at 38°N 015°E ?**

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- a) Reduced visibility
- b) Severe attenuation in the HF R/T band
- c) There is no hazard
- d) Engine flame out and windscreen damage[see Annex]

**37. Considering TAS for maximum range and maximum endurance, other factors remaining constant:**

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- a) Both will stay constant regardless of altitude
- b) Both will decrease with increasing altitude
- c) TAS for maximum range will increase with increased altitude while TAS for maximum endurance will decrease with increased altitude
- d) Both will increase with increasing altitude

**38. An aeroplane has the following masses: ESTLWT= 50 000 kg Trip fuel= 4 300 kg Contingency fuel= 215 kg Alternate fuel (final reserve included)= 2 100kg Taxi= 500 kg Block fuel= 7 115 kg Before departure the captain orders to make the block fuel 9 000 kg. The trip fuel in the operational flight plan should read:**

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- a) 6 185 kg.
- b) 9 000 kg.
- c) 4 300 kg.
- d) 6 400 kg.

**39. Aircraft X-BC has been instructed to contact Stephenville TOWER on frequency 118.7. What is the correct response to indicate that it will follow this instruction ?**

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- a) Will change to TOWER X-BC
- b) 118.7 X-BC
- c) Stephenville TOWER X-BC
- d) Changing over X-BC



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## 40. Basic RNAV requires a track-keeping accuracy of:

- a) +/- 3NM or better for 90% of the flight time
- b) +/- 5NM or better for 95% of the flight time
- c) +/- 5NM or better throughout the flight
- d) 1090 +/- 0.3 MHz

## 41. An applicant for an Airline Transport Pilot Licence aeroplane shall have completed in aeroplanes not less than ..... hours, either as pilot in command or made up by not less than..... hours as pilot-in-command and the additional flight time as 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 stated above hours are respectively:

- a) 250 hours and 70 hours
- b) 150 hours and 75 hours
- c) 200 hours and 100 hours
- d) 200 hours and 75 hours

## 42. What, if any, is the abbreviated call sign of Fastair 2345?

- a) Fastair 345
- b) No abbreviated form
- c) 2345
- d) Fastair 45

## 43. In the northern hemisphere, during the take-off run in an easterly direction, a direct reading magnetic compass indicates:

- a) No apparent turn.
- b) An apparent turn to approximately the heading 100°.
- c) An apparent turn to the south.
- d) An apparent turn to the north.

## 44. Why is a secondary radar display screen free of storm clutter?

- a) The principle of 'echo' return is not used in secondary radar
- b) The frequencies employed are too low to give returns from moisture sources
- c) A moving target indicator facility suppresses the display of static or near static returns
- d) 2 and 4

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**45. The diameter of a typical tornado is**

- a) About 2 to 6 km
- b) Only a few metres
- c) In the order of 10 km
- d) 100 to 150 metres

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**46. A dry, sand- and dust-laden North Easterly wind that blows in winter over large parts of North West Africa is known as a**

- a) Harmattan
- b) Khamsin
- c) Pampero
- d) Scirocco

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**47. Which is true of a typical non frontal thermal depression?**

- a) It forms over the ocean in winter
- b) It forms over the ocean in summer
- c) It forms over land in winter
- d) It forms over land in summer

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**48. When taking-off behind a heavy aircraft, with wind coming from the left side, you adopt a path, whenever possible:**

- a) Distinct from the preceding airplane, by remaining at the right of and under its path.
- b) Distinct from the preceding airplane, by remaining at the left of and above its path.
- c) Distinct from the preceding airplane, by remaining behind it and under its path.
- d) Identical to the one of the preceding airplane.

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

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

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## 50. A boundary layer fence on a swept wing will:

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- a) Improve the high speed characteristics
- b) Improve the low speed characteristics
- c) Improve the lift coefficient of the trailing edge flap
- d) Increase the critical Mach Number

## 51. Which information can aircraft in flight obtain by VOLMET:

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- a) SIGMET
- b) SPECI and TAF
- c) Runway reports
- d) Aviation routine weather reports (METAR) of specific airports

## 52. What does the word 'cancel' mean?

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- 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

## 53. How far from other parking areas or installations is the parking area designated for aircraft subjected to unlawful interference to be not less than?

---

- a) 100 m
- b) 300 m
- c) 200 m
- d) 50 m

## 54. Before transmitting the pilot should...:

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- a) Always write the message and read it during the transmission
- b) Make sure that the aircraft is levelled off
- c) Make sure that the emergency frequency is tuned in at the same time
- d) Listen out on the frequency to ensure no interference with another station already transmitting will occur

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**55. When filling in an ATC flight plan before departure, the time information which should be entered in item 13: 'Time' is:**

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- a) Planned take-off time.
- b) Estimated off-block time.
- c) The time of flight plan filing.
- d) Planned engine start time.

**56. With increasing angle of attack, the stagnation point will move (I) ...and the point of lowest pressure will move (II) ...Respectively (I) and (II) are:**

---

- a) (I) down, (II) forward.
- b) (I) up, (II) forward.
- c) (I) down, (II) aft.
- d) (I) up, (II) aft.

**57. Flight planning chart for an aircraft states, that the time to reach the cruising level at a given gross mass is 36 min and the distance travelled is 157 NM (zero-wind). What will be the distance travelled with an average tailwind component of 60 KT?**

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- a) 128 NM
- b) 193 NM
- c) 228 NM
- d) 157 NM

**58. What is the approximate composition of the dry air by volume in the troposphere?**

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- a) 88 % oxygen, 9 % nitrogen, and the rest other gasses
- b) 10 % oxygen, 89 % nitrogen, and the rest other gasses
- c) 50 % oxygen, 40 % nitrogen, and the rest other gasses
- d) 21 % oxygen, 78 % nitrogen, and the rest other gasses

**59. The pilot may be prevented from retracting the landing gear whilst the aircraft is on the ground by:**

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- a) A Guard On The Selector Switch Which Cannot Be Moved Until The Aircraft Is Airborne.
- b) The electrical control system being routed through the weight on wheels switch.
- c) A pneumatic interlock which disables the hydraulic up selector.
- d) Any Attempt To Select The Landing Gear Up Will Result In A Flashing Warning Light And A Loud Horn.

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**60. Calculate the centre of gravity in % MAC (mean aerodynamic chord) with following data: Distance datum - centre of gravity: 12.53 m Distance datum - leading edge: 9.63 m Length of MAC: 8 m**

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- a) 63.4 % MAC
- b) 36.3 % MAC
- c) 23.1 % MAC
- d) 47.0 % MAC

**61. From which of the following pieces of information can the stability of the atmosphere be derived?**

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- a) Surface temperature
- b) Environmental lapse rate
- c) Pressure at the surface
- d) Dry adiabatic lapse rate

**62. A stationary observer in the northern hemisphere is situated in front of a depression. The centre of the depression passes from west to east and south of the observer. For this observer the wind**

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- a) Backs
- b) Initially backs, then veers
- c) Initially veers, then backs
- d) Veers

**63. What is normally used for ATIS broadcasts ?**

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- a) Voice channel of an ILS
- b) NDB frequencies
- c) Discrete VHF frequency or/and VOR
- d) DME voice channel

**64. Some hours after a rapid decompression at FL 300 you experience pain in the joints. Which of following answers is correct?**

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- a) This symptom indicates decompression sickness and will disappear when you take some exercise.
- b) You should ask for medical advice (flight surgeon) since this is a symptom of decompression sickness.
- c) This phenomenon is treated by breathing 100% nitrogen.
- d) This phenomenon is treated by physiotherapy.

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**65. An apparent increase in the transmitted frequency which is proportional to the transmitter velocity will occur when:**

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- a) The transmitter moves towards the receiver
- b) Both transmitter and receiver move towards each other
- c) The receiver moves towards the transmitter
- d) 36

**66. The take-off safety speed  $V_2$  for two-engine or three-engine turbo propeller powered aeroplanes may not be less than:**

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- a)  $1.13 V_{sr}$
- b)  $1.15 V_{sr}$
- c)  $1.15 V_{s1}$
- d)  $1.2 V_s$

**67. The international convention defining rules relative to the responsibilities of international air carriers for the carriage of passengers, baggage and freight is the:**

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- a) Montreal Convention.
- b) Hague Convention.
- c) Warsaw Convention.
- d) Tokyo Convention.

**68. In order to produce an alternating voltage of 400 Hz, the number of pairs of poles required in an AC generator running at 6.000 RPM is:**

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- a) 8
- b) 4
- c) 24
- d) 12

**69. A VOR is sited at position A ( $45^{\circ}00'N$ ,  $010^{\circ}00'E$ ). An aircraft is located at position B ( $44^{\circ}00'N$ ,  $010^{\circ}00'E$ ). Assuming that the magnetic variation at A is  $10^{\circ}W$  and at B is  $15^{\circ}W$ , the aircraft is on VOR radial:**

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- a)  $195^{\circ}$
- b)  $185^{\circ}$
- c)  $190^{\circ}$
- d)  $020^{\circ}$

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## 70. The data supplied by a radio altimeter:

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- a) Is used only by the radio altimeter indicator.
- b) Concerns only the decision height.
- c) Is used by the automatic pilot in the altitude hold mode.
- d) Indicates the distance between the ground and the aircraft.

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## Schema Risposte

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

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