

# Simulazione di Esame

Principles of Flight - ATPL - Airline Transport Pilot Licence, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

## 01. The phases related to an aircraft in emergency or believed in emergency are:

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- a) Uncertainty phase, alert phase, distress phase and urgency phase.
- b) Uncertainty phase, urgency phase, distress phase.
- c) Uncertainty phase, alert phase, distress phase.
- d) Uncertainty phase, distress phase, urgency phase.

## 02. The maximum load per running metre of an aircraft is 350 kg / m. The width of the floor area is 2 metres. The floor strength limitation is 300 kg per square metre. Which one of the following crates (length x width x height) can be loaded directly on the floor?

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- a) A load of 500 kg in a crate with dimensions 1.5 m x 1 m x 1 m.
- b) A load of 400 kg in a crate with dimensions 1.2 m x 1.2 m x 1.2 m.
- c) A load of 700 kg in a crate with dimensions 1.8 m x 1.4 m x 0.8 m.
- d) A load of 400 kg in a crate with dimensions 1.4 m x 0.8 m x 0.8 m.

## 03. If you are requested to report your height, to which Q-code-setting would you refer?

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- a) QNH
- b) QFE
- c) QBI
- d) QDM

## 04. The wing of an aircraft in flight, powered by engines located under the wing, is subjected to a bending moment which causes its leading edge, from the wing root to the wing tip, to operate in:

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- a) Tension, Then In Compression.
- b) Tension.
- c) Compression, then in tension.
- d) Compression.

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**05. Air traffic services may require an aircraft to report position when flying east-west, south of 70°N between 5°W and 65°W, every:**

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- a) 10° of longitude.
- b) 15° of longitude.
- c) 20° of longitude.
- d) 5° of longitude.

**06. The principle of the TCAS (Traffic Collision Avoidance Systems) is based on the use of:**

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- a) Airborne weather radar system
- b) Transponders fitted in the aircraft
- c) Air traffic control radar systems
- d) F.M.S. (Flight Management System)

**07. Refer to 5AT(HI):On airway PTS P from Vigra (62°33'4N 006°02'E), the initial great circle grid course is:**

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- a) 344
- b) 350
- c) 347
- d) 353

**08. The age of an applicant for a commercial pilot licence shall not be less than:**

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

**09. If Paris reports a wind of 30012KT on the METAR, what wind velocity would you expect to encounter at a height of 2000 feet above the ground ?**

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- a) 33025KT
- b) 23030KT
- c) 27020KT
- d) 30025KT

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## 10. The dry adiabatic lapse rate

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- a) Is greater during the night than during the day
- b) Is greater in summer than in winter
- c) Has a variable value
- d) Has a constant fixed value

## 11. Except otherwise established by the appropriate ATS authority a Surveillance Radar Approach (SRA) shall be terminated at a distance from the touchdown of:

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

## 12. Refer to CAP697 Section 4 - MRJT1 Page 13 Figure 4.3.3C Simplified Flight Planning - Trip Distances Given: ground distance to destination aerodrome 1600 NM headwind component 50 KTFL 330cruise 0.78 MachISA +20 ° Cestimated landing weight 55000 kg.Find: simplified flight planning to determine estimated trip fuel and trip time.

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- a) 12 400 kg, 04h 12 min
- b) 11 400 kg, 04h 12 min
- c) 11 400 kg, 03h 55 min
- d) 12 400 kg, 03h 55 min[see Annex]

## 13. How should aircraft XY-ABC call Stephenville TOWER on initial call ?

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- a) Stephenville TOWER XY-ABC
- b) TOWER XY-ABC
- c) Stephenville XY-ABC
- d) Stephenville TOWER X-BC

## 14. The angle between the aeroplane longitudinal axis and the chord line is the:

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- a) Angle of incidence
- b) Climb path angle
- c) Angle of attack
- d) Glide path angle

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## 15. The drift down requirements are based on:

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- a) The obstacle clearance during a descent to the new cruising altitude if an engine has failed
- b) The landing mass limit at the alternate
- c) The maximum flight path gradient during the descent
- d) The actual engine thrust output at the altitude of engine failure

## 16. If a stop-over is more than 24 hours, the correct action is to:

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- a) Stay on home time and, on arrival, move to the new time
- b) Move to the new time as soon as possible
- c) No adjustment is necessary
- d) Stay on home time

## 17. Which combination of circumstances or conditions would most likely lead to a tyre speed limited take-off?

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- a) A high runway elevation and tail wind
- b) A low runway elevation and a head wind
- c) A high runway elevation and a head wind
- d) A low runway elevation and a cross wind

## 18. Which of the following will reduce induced drag?

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- a) Low aspect ratio
- b) Elliptical lift distribution
- c) Extending the flaps
- d) Flying at high angles of attack

## 19. 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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## 20. Associate the correct legend to each of the numbered diagrams:

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- a) 1- Cantilever 2- Dual Wheels 3- Half Fork 4- Fork
- b) 1- half fork 2- fork 3- cantilever 4- tandem
- c) 1- half-fork 2- single trace 3- cantilever 4- dual wheels
- d) 1- cantilever 2- fork 3- half fork 4- dual wheels

## 21. For a planned flight the calculated fuel is as follows: Flight time: 3h06min The reserve fuel, at any time, should not be less than 30% of the remaining trip fuel. Taxi fuel: 8 kg Block fuel: 118 kg How much fuel should remain after 2 hours flight time?

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- a) 39 kg trip fuel and 12 kg reserve fuel.
- b) 30 kg trip fuel and 9 kg reserve fuel.
- c) 39 kg trip fuel and no reserve fuel.
- d) 27 kg trip fuel and 12 kg reserve fuel.

## 22. A Lambert conformal conic chart has a constant of the cone of 0.80. A straight line course drawn on this chart from A (53°N 004°W) to B is 080° at A

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- a) Course at B is 092°(T). What is the longitude of B?
- b) 009°36'E
- c) 011°E
- d) 019°E

## 23. When the air is passing through an expansion wave the local speed of sound will

---

- a) Decrease.
- b) Decrease and beyond a certain Mach number start increasing again.
- c) Stay constant.
- d) Increase.

## 24. Given: TAS = 470 kt, True HDG = 317°W/V = 045°(T)/45kt Calculate the drift angle and GS?

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- a) 3°R - 470 kt
- b) 5°L - 470 kt
- c) 5°R - 475 kt
- d) 5°L - 475 kt

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**25. Refer to the Student Pilot Route Manual - VFR Chart ED-4 Flying from ERBACH airport (48°21'N, 009°55'E) to POLTRINGEN airport (48°33'N, 008°57'E). Find magnetic course and the distance.**

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- a) Magnetic course 285°, distance 41 NM
- b) Magnetic course 289°, distance 76 KM
- c) Magnetic course 287°, distance 60 NM
- d) Magnetic course 108°, distance 41 NM

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

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

**27. 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

**28. Which component of the Electronic Flight Instrument System generates the visual displays on the EADI and EHSI?**

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- a) Flight Control Computer
- b) Flight Management Computer
- c) Navigation database
- d) 17 NM

**29. The optimum cruise altitude increases**

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- a) If the temperature (OAT) is increased.
- b) If the tailwind component is decreased.
- c) If the aeroplane mass is decreased.
- d) If the aeroplane mass is increased.

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**30. A 1211 halon fire-extinguisher can be used for:1. a paper fire2. a fabric fire3. an electric fire4. a wood fire5. a hydrocarbon fire**The combination regrouping all the correct statements is:

---

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

**31. Flight Zurich to Rome, ETD 1600 UTC, ETA 1800 UTC. At what flight level would you first expect to encounter clear air turbulence on the climb out from Zurich?**

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- a) FL 220
- b) FL 140
- c) At what flight level would you first expect to encounter clear air turbulence on the climb out from Zurich? FL 220 FL 140 FL 320
- d) FL 160[see Annex]

**32. When a persistent underexcitation fault is detected on an AC generator connected to the aircraft mains with another AC generator, the protection device opens:**

---

- a) The Generator Breaker And The Tie Breaker.
- b) The tie breaker.
- c) The generator control relay and the generator breaker.
- d) The exciter control relay, the generator breaker and the tie breaker.

**33. 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.

**34. Which one of the following sets of conditions is most likely to attract birds to an aerodrome ?**

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- a) Maintaining the grass on the airfield
- b) A opened refuse tip in close vicinity
- c) The extraction of minerals such as sand and gravel
- d) Modern and close sewage treatment centre in close proximity

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**35. A ground proximity warning system (GPWS), when mandatory installed on board an aircraft, must in all cases generate:**

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- a) At least one sound alarm to which a visual alarm can be added
- b) A visual alarm to which a sound alarm can be added
- c) A sound and visual alarm
- d) A sound alarm or a visual alarm

**36. A jet aeroplane, with the geometrical characteristics shown in the appendix, has a take-off weight (W) of 460 000 N and a centre of gravity (point G on annex) located at 15.40 m from the zero reference point. At the last moment the station manager has 12 000 N of freight added in the forward compartment at 10 m from the zero reference point. The final location of the centre of gravity, calculated in percentage of mean aerodynamic chord AB (from point A), is equal to:**

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- a) 16.9 %.
- b) 27.5 %.
- c) 35.5 %.
- d) 30.4 %.

**37. What is the result of a large take off flap setting compared to a small take off flap setting on required Take-off Distance (TOD) and the field length limited Take-off Mass (TOM)?**

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- a) Increased TOD required and decreased field length limited TOM
- b) Decreased TOD required and increased field length limited TOM
- c) Decreased TOD required and decreased field length limited TOM
- d) Increased TOD required and increased field length limited TOM

**38. Which of the following statements about lightnings and lightning strikes is correct?**

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- a) Lightning strikes always cause heavy damage
- b) Spherical lightnings often penetrate into aircraft
- c) Compasses and electronics are always affected
- d) The aircraft is temporarily part of the lightning trajectory



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**39. In accordance with IR-OPS an operator must ensure that the lowest MDH for a NDB approach without CDFA technique shall not be lower than:**

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

**40. Which frequency shall be used for the first transmission of an urgency call:**

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- a) The regional guard frequency
- b) The international emergency frequency
- c) Any frequency at pilot's discretion
- d) The air-ground frequency in use at the time

**41. Among the different types of aircraft structures, the shell structures efficiently transmit the: 1. normal bending stresses 2. tangent bending stresses 3. torsional moment 4. shear stress**

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- a) 1, 2, 3
- b) 1, 3, 2004
- c) 1, 2, 2004
- d) 2, 3, 2004

**42. In tropical zones, it is recommended that:**

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- a) Cold drinks be taken from sealed containers
- b) One eats fruit without peeling them, to ensure a supply of vitamins
- c) One eats raw vegetables
- d) One uses ice cubes in cold drinks

**43. Which phrase should a pilot use to inform ATC that he is initiating a missed approach procedure:**

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- a) Missed approach
- b) Going around
- c) Overshooting
- d) Pulling up

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**44. Which of the messages listed below shall not be handled by the aeronautical mobile service?**

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- a) Radio teletype messages.
- b) Urgency messages.
- c) Flight safety messages.
- d) Meteorological messages.

**45. What type of satellite navigation system NAVSTAR/GPS receiver is most suitable for use on board an aircraft?**

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- a) Multiplex
- b) Sequential
- c) Any hand held type
- d) Multichannel

**46. Blind transmission shall be made:**

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- a) On the designated frequency (frequency in use)
- b) During IFR flights only
- c) On regional guard frequencies only
- d) To all available aeronautical stations

**47. See TRM (VFR), Aberdeen (Dyce) Information Page (19- 6) What is the designated departure route when using Runway 23 in bad weather and/or low visibility?**

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- a) H3
- b) H6
- c) H5
- d) H1

**48. 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

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## 49. 'Tuck under' may happen at:

---

- a) Low Mach numbers.
- b) High Mach numbers.
- c) Only at low altitudes.
- d) All Mach numbers.

## 50. The use of professional languages offers:

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- a) Longer attention span
- b) More precise meaning
- c) Quick comprehension and simplified grammar
- d) Better communication even if professionals are not from the same field

## 51. The transmitter of RPM indicator may consist of:1- a magnetic sensor supplying an induced AC voltage 2- a DC generator supplying a DC voltage3- a single-phase AC generator supplying an AC voltage4- a three-phase AC generator supplying a three-phase voltage The combination regrouping all the correct statements is:

---

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

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

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

## 53. Airborne weather radar systems use a wavelength of approximately 3 cm in order to:

---

- a) Obtain optimum use of the cosecant squared beam
- b) Transmit at a higher pulse repetition frequency for extended range
- c) Detect the smaller cloud formations as well as large
- d) Increase in area and move to the top of the screen

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**54. Which abbreviation is used for the term 'control zone'?**

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- a) CZ
- b) CTZ
- c) CTR
- d) CTA

**55. Which of the following statements is correct? 1. Psychosomatic means that mental and/or emotional stressors can be manifested in physical reactions. 2. Psychosomatic means that a physical problem is always followed by psychological stress.**

---

- a) 1 and 2 are both correct
- b) 1 is false, 2 is correct
- c) 1 is correct, 2 is false
- d) 1 and 2 are both false

**56. If it exists, the M.M.E.L. (Master Minimum Equipment List) is drawn up by:**

---

- a) The aircraft manufacturer's list.
- b) The operator.
- c) The aircraft state of registry.
- d) The manufacturer / the type certificate holder.

**57. The troposphere**

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- a) Contains all oxygen of the stratosphere
- b) Is the separation layer between the stratosphere and atmosphere
- c) Has a greater vertical extent above the equator than above the poles
- d) Reaches the same height at all latitudes

**58. Altimeter setting procedures - transition level The transition level:**

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- a) Is published on the approach and landing chart for each aerodrome
- b) Will be passed to aircraft by ATS units
- c) Is published and updated in the NOTAM
- d) Is calculated by the Pilot-in command

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**59. 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

**60. You are on a compass heading of 090° on the 255 radial from a VOR. You set the course 190° on your OBS. The deviation bar will show:**

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- a) Full scale deflection right with a 'from' indication
- b) Full scale deflection left with a 'to' indication
- c) Full scale deflection left with a 'from' indication
- d) Coastal refraction.

**61. The polar front is the boundary between:**

---

- a) Maritime polar air and continental polar air.
- b) Polar air and tropical air.
- c) Arctic air and tropical air.
- d) Arctic air and polar air.

**62. What is the maximum theoretical range that an aircraft at FL150 can receive signals from a VOR situated 609' above MSL?**

---

- a) 220 NM
- b) 147 NM
- c) 184 NM
- d) 156 NM

**63. Transmissions from VOR facilities may be adversely affected by:**

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- a) Static interference
- b) Night effect
- c) Uneven propagation over irregular ground surfaces
- d) Quadrantal error

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**64. An aircraft making a radar approach should be advised to consider executing a missed approach, if the position or identification of the aircraft is in doubt during any portion of the final approach or if the aircraft is not visible on the radar display for significant interval during the last:**

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

**65. In the event that a pilot is required to make a blind transmission, this should be made:**

---

- a) Twice on the designated frequency
- b) During VFR flights only
- c) On the emergency frequency only
- d) Only once on the designated frequency

**66. Gyroscopic precession of a propeller is induced by:**

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- a) Pitching and yawing.
- b) Increasing RPM and rolling.
- c) Increasing RPM and yawing.
- d) Pitching and rolling.

**67. 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

**68. Precision RNAV (P-RNAV) requires a track-keeping accuracy of:**

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- a)  $\pm 10.0\text{nm}$  for 95% of the flight time.
- b)  $\pm 5.0\text{nm}$  for 95% of the flight time.
- c)  $\pm 1.0\text{nm}$  for 95% of the flight time.
- d) 1300MHz

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**69. Due to its conception, the altimeter measures a:**

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- a) A density altitude
- b) A temperature altitude
- c) A pressure altitude
- d) A true altitude

**70. The region of the globe where the greatest number of tropical revolving storms occur is**

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- a) The north-west Pacific, affecting Japan, Taiwan, Korea and the Chinese coastline.
- b) The northern Indian ocean, affecting India, Sri Lanka and Bangladesh.
- c) The south-western Indian ocean, affecting Madagascar, Mauritius and the island of Réunion.
- d) The Caribbean sea, affecting the West Indies, Mexico and the south-east coastline of the US

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## Schema Risposte

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

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