

# Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

**01. Shimmy occurs on the nose wheel landing gear during taxiing when 1. the wheels tend to describe a sinusoidal motion on the ground 2. the wheels no longer respond to the pilot's action This effect is overcome by means of: 3. the torque link 4. a damper associated with the steering cylinder The combination of correct statements is:**

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

**02. When Fowler type trailing edge flaps are extended at a constant angle of attack, the following changes will occur:**

- a) CL increases and the centre of pressure moves forward
- b) CL and CD increase
- c) CD decreases and the centre of pressure moves aft
- d) CL increases and CD remains constant

**03. An observer is situated on the parallel of 23,5°S. Which statement about the passage of the apparent Sun in relation to this position is correct?**

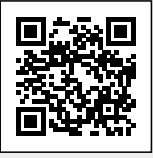
- a) 6L - 395 kt
- b) 2L - 420 kt
- c) 5L - 385 kt
- d) 4L - 415 kt

**04. When an aircraft has sustained damage, the aircraft shall be allowed to resume its flight, if**

- a) The state of registry, the state of design and the state of manufacture consider that the aircraft is still airworthy
- b) The state of registry considers that the damage sustained is of a nature such that the aircraft is still airworthy
- c) The state of design and the state of manufacture inform the state of registry that the aircraft is still airworthy
- d) The state of manufacture informs the state of registry that the damage sustained is of a nature such that the aircraft is still airworthy

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

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- 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.

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**06. Anxiety and fear can cause**

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- a) Hypoxia
- b) Hyperventilation
- c) Hypoglycaemia
- d) Spatial disorientation

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**07. The take-off runway performance requirements for transport category aeroplanes are based upon:**

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- a) All engines operating only
- b) One engine inoperative only
- c) Failure of the critical engine or all engines operating whichever requirement gives the greater distance
- d) Failure of the critical engine only

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**08. A pneumatic de-icing system should be operated:**

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- a) When Entering Areas With Icing Conditions.
- b) When there are approximately 5 cm of ice on the leading edges.
- c) When there is approximately 1,5 cm of ice on the leading edges.
- d) Only At Take-off And During Approach.

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**09. The ventilation system in a fuel tank:**

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- a) Can Be Used To Drain The Tanks, For Daily Checks.
- b) It prevents a surge in the tank of an iced aeroplane.
- c) Prevents low pressure or overpressure in the tank.
- d) Prevents Vapour Lock In The Fuel Lines.

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## 10. What is meant by presbycusis?

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- a) Total loss of hearing in one ear due to use of a headset in the cockpit.
- b) Gradual loss of hearing with age.
- c) Gradual onset of long-sightedness with age.
- d) Total loss of hearing in both ears due to disease.

## 11. If an aeroplane was to circle around the Earth following the parallel 60°N at a ground speed of 480 KT. In order to circle around the Earth along the equator in the same amount of time, it should fly at a ground speed of:

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- a) 960 KT
- b) 480 KT
- c) 550 KT
- d) 240 KT

## 12. When an aeroplane is flying at an airspeed which is 1.3 times its basic stalling speed, the coefficient of lift as a percentage of the maximum lift coefficient (CLmax) would be:

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- a) 130%
- b) 169%
- c) 59%
- d) 77%

## 13. An aeroplane must be re-weighed at certain intervals. Where an operator uses 'fleet masses' and provided that changes have been correctly documented, this interval is

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- a) 9 years for each aeroplane.
- b) Whenever a major modification is carried out.
- c) Whenever the Certificate of Airworthiness is renewed.
- d) 4 years for each aeroplane.

## 14. Given: Distance from departure to destination 338 NM True track 045W/V 225/35TAS 120 kt What is the distance and time of the PET from the departure point? What is the distance and time of the PET from the departure point?

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- a) Distance: 218 NM Time: 85 min
- b) Distance: 169 NM Time: 85 min
- c) Distance: 120 NM Time: 46 min
- d) Distance: 185 NM Time: 72 min

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## 15. Cognitive and physical rehearsal of actions during training:

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- a) Is most important for the acquisition of complex perceptual motor skills
- b) Is more effective than practical training
- c) Leads to an increased error rate
- d) Is most important for self-control

## 16. VNE is the maximum speed:

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

## 17. Hoar frost forms on an aircraft as a result of:

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- a) Freezing rain striking the aircraft.
- b) Droplets forming on the aircraft and then freezing.
- c) Water vapour turning directly into ice crystals on the aircraft surface.
- d) Small super-cooled droplets striking the aircraft.

## 18. Which of the following is obligating for members of ICAO?

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- a) ICAO shall approve the pricing of tickets on international airline connections
- b) ICAO must be informed about differences from the standards in any of the Annexes to the convention
- c) ICAO must be informed about new flight crew licenses and any suspended validity of such licenses
- d) ICAO must be informed about changes in the national regulations

## 19. Following an act of unlawful interference on board an aircraft, the commander should submit a report to:

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- a) Both the local authority and the Authority of the State of the operator
- b) The Authority of the State within which the aircraft is operating at the time of the unlawful interference
- c) The Authority of the State of the operator only
- d) The local authority only

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**20. Which of the following is the correct suffix for the ATC unit controlling the traffic on the ground at an airport?**

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- a) Radar
- b) Approach
- c) Ground
- d) Delivery

**21. The first clouds are thin, wispy cirrus, followed by sheets of cirrus and cirrostratus, and altostratus. The sun is obscured as the altostratus thickens and drizzle or rain begins to fall. The cloud base is lowering as Nimbostratus arrives. These phenomena describe the approach of a**

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- a) Warm front
- b) Sea-breeze front
- c) Trade wind front
- d) Cold front

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

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

**23. Given: Distance from departure to destination: 210 NM Endurance: 2,5 h True Track: 035 W/V: 250/20 TAS: 105 kt What is the distance of the PSR from the departure point?**

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- a) 64 NM
- b) 88 NM
- c) 172 NM
- d) 127 NM

**24. 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:**

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

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

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

**26. Which of the following abbreviated call signs of Cherokee XY-ABC is correct:**

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- a) Cherokee XY-BC
- b) Cherokee BC
- c) Cherokee X-ABC
- d) Cherokee X-BC

**27. Which is the maximum distance at which you might expect solid VHF contact over flat terrain at flight level 50:**

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- a) About 8 NM
- b) About 15 NM
- c) About 85 NM
- d) About 150 NM

**28. What drift is being experienced?**

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- a) 8° Left
- b) 12° Right
- c) 20° Left
- d) Combined azimuth and elevation transmitter, DME facility

**29. In accordance with JAR-OPS, an operator must ensure that the MDH for a VOR approach is not lower than:**

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

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**30. To be as accurate as possible, an anemometer must be calibrated according to the following formula:**

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- a) Bernoulli, taking into account the air compressibility.
- b) Saint-Venant, considering the air as an incompressible fluid.
- c) Saint-Venant, taking into account the air compressibility.
- d) Bernoulli, considering the air as an incompressible fluid.

**31. Given: true course (TC) 017 W/V 340/30 TAS 420 kt Find: wind correction angle (WCA) and ground speed (GS)**

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- a) WCA +2° GS 396 kt
- b) WCA -2° GS 426 kt
- c) WCA -2° GS 396 kt
- d) WCA +2° GS 416 kt

**32. How would you call the leadership style of a captain who primarily is interested in a friendly atmosphere within his crew, who is always constructive and encouraging, who usually compromises in interpersonal conflicts, who trusts in the capabilities of his crew-members, and who leaves the crew freedom for own decisions?**

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- a) Low task-orientation and high relationship-orientation
- b) Low task-orientation and low relationship-orientation
- c) High task-orientation and high relationship-orientation
- d) High task-orientation and low relationship-orientation

**33. An aeroplane has the following masses: ESTLWT= 50 000 kg Trip fuel= 4 300 kg Contingency fuel= 215 kg Alternate fuel (final reserve included)= 2 100 kg 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.

**34. The most dangerous icing conditions are encountered in**

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- a) Icy clouds at high levels.
- b) Unstable clouds at medium levels.
- c) Supercooled precipitation.
- d) Zones where the air temperature is below -15°

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**35. General Adaptation Syndrome is characterised by the following phases: 1: alarm2: alert phase3: resistance phase4: exhaustion phase5: vigilance phase**

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

**36. Which elements of communication are prone to malfunctioning?**

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- a) Coding and decoding
- b) The sender and the receiver as well as coding and decoding
- c) The receiver
- d) The sender

**37. During the ground run take-off phase, the auto-throttles allow to:**

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- a) Hold IAS.
- b) Maintain V2 under 1.500 ft.
- c) Hold N1.
- d) Hold and maintain the Mach number.

**38. A pilot wishes to turn right 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) 170°
- b) 150°
- c) 200°
- d) 190°

**39. Informal roles within a crew**

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- a) Are explicitly set out by the crew
- b) Will always impair the captain's influence
- c) Evolve as a result of the interactions that take place among crew members
- d) Characterize inefficient crews



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## 40. What does the word 'disregard' mean?

- a) Consider that transmission as not sent
- b) Wait and I will call you
- c) Annul the previously transmitted clearance
- d) An error has been made in this transmission

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

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

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## 42. What is the minimum number of NAVSTAR/GPS satellites required to produce an accurate independent 3-D position fix?

- a) 4
- b) 3
- c) 24
- d) Latitude, longitude and time

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## 43. What is the correct way of transmitting 1001 as a QNH ?

- a) QNH one double 'O' one
- b) QNH one zero zero one
- c) QNH one double zero one
- d) QNH one thousand and one

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## 44. Which abbreviation is used for 'Co-ordinated universal time'?

- a) GMT.
- b) CUT.
- c) COUT.
- d) UT

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**45. You are flying a constant compass heading of 252°. Variation is 22°E, deviation is 3°W and your INS is showing a drift of 9° right. True track is ?**

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- a) 242°
- b) 224°
- c) 262°
- d) 280°

**46. Avoidance of collisions**The highest priority for landing has:

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- a) An aircraft that is compelled to land (Emergency landing).
- b) An Air Ambulance carrying a very sick person needing immediate medical attention.
- c) An aircraft on a diplomatic flight (Head of state).
- d) A military aircraft.

**47. For two-engined aeroplanes not approved for ETOPS, the take-off alternate, if required, shall be located (in still air conditions) within:**

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- a) One hour flight time at cruising speed with all engines operating.
- b) Two hours flight time at one engine inoperative cruising speed.
- c) Two hours flight time at cruising speed with all engines operating.
- d) One hour flight time at one engine inoperative cruising speed.

**48. Between which components, with reference to the SHELL Concept, covers pilot misinterpretation of the old three-point altimeter?**

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- a) Liveware - Environment
- b) Liveware - Software
- c) Liveware - Liveware
- d) Liveware - Hardware

**49. A mass of 500 kg is loaded at a station which is located 10 metres behind the present Centre of Gravity and 16 metres behind the datum.(Assume:  $g=10 \text{ m/s}^2$ )The moment for that mass used in the loading manifest is:**

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- a) 50000 Nm
- b) 80000 Nm
- c) 130000 Nm
- d) 30000 Nm

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**50. Rotation about the lateral axis is called:**

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- a) Yawing
- b) Slipping
- c) Pitching
- d) Rolling

**51. Which one of the following systems suppresses the tendency to 'Dutch roll'?**

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- a) Roll spoilers.
- b) Yaw damper.
- c) Rudder limiter.
- d) Spoiler mixer.

**52. The diameter of the Earth is approximately:**

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- a) 12 700 km
- b) 40 000 km
- c) 18 500 km
- d) 6 350 km

**53. A commercial aeroplane is scheduled to be operated at FL 390 and has the following characteristics: Maximum approved passenger seating configuration = 230 Number of seats on board = 200 Scheduled number of passengers on board = 180 The minimum number of oxygen dispensing units provided in the aeroplane cabin compartment should be:**

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- a) 220.
- b) 180.
- c) 200.
- d) 230.

**54. The primary purpose of a supercharger is to:**

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- a) Provide Leaner Mixtures At Altitudes Below 5000 Ft
- b) Increase quantity of fuel at metering jet
- c) Provide a richer mixture at high altitudes
- d) Maintain power at altitude

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## 55. The tanks of a hydraulic system are pressurized:

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- a) In Flight Only.
- b) By bleed air coming from the turbine-engine.
- c) By an auxiliary system.
- d) By The Air Conditioning System.

## 56. . 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.

## 57. Which of the following statements is correct?

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- a) If the actual centre of gravity is located behind the aft limit of centre of gravity it is possible that the aeroplane will be unstable, making it necessary to increase elevator forces
- b) A tail heavy aeroplane is less stable and stalls at a lower speed than a nose heavy aeroplane
- c) The lowest stalling speed is obtained if the actual centre of gravity is located in the middle between the aft and forward limit of centre of gravity
- d) If the actual centre of gravity is close to the forward limit of the centre of gravity the aeroplane may be unstable, making it necessary to increase elevator forces

## 58. The ATIS broadcast message should, whenever practicable, not exceed

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- a) 30 seconds
- b) 3 minutes
- c) 2 minutes
- d) 1 minute

## 59. What does the word 'report' mean?

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- a) Pass me the following information
- b) Examine a system or procedure
- c) Say again
- d) Repeat all of this message back to me exactly as received

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**60. An airplane is in steady cruise at flight level 290. The auto-throttle maintains a constant Mach number. If the total temperature increases, the calibrated airspeed:**

- a) Increases.
- b) Remains constant.
- c) Increases if the static temperature is higher than the standard temperature, decreases if lower.
- d) Decreases.

**61. What elements establish synergy within the crew ?**

- a) Synergy is independent of the natural individual characteristics of the group members (communication, mutual confidence, sharing of tasks, etc.)
- b) Synergy establishes itself automatically within the crew, right through from briefing to debriefing
- c) It is only the captain's status which allows the establishment of synergy within the crew
- d) Synergy must be built up from the start of the mission (briefing) and be maintained until it comes to an end (debriefing)

**62. The intersections of the thrust available and the drag curve are the operating points of the aeroplane**

- a) In accelerated level flight.
- b) In descent with constant IAS.
- c) In unaccelerated climb.
- d) In unaccelerated level flight.

**63. An aircraft in state of emergency shall squawk:**

- a) 6700
- b) 7700
- c) 7500
- d) 7600

**64. When an aircraft subjected to an unlawful interference has landed it shall notify by the most expeditious means of the State of registry of the aircraft and the State of the operator of the landing and shall similarly transmit all other relevant information to the:**

- a) Two aforementioned States, each State whose citizens suffered fatalities or injuries, each State whose citizens are known to be on board the aircraft and the ICAO
- b) Two aforementioned States and the ICAO
- c) Two aforementioned States, each State whose citizens suffered fatalities or injuries, each State whose citizens were detained as hostages, each State whose citizens are known to be on board the aircraft and the ICAO
- d) Two aforementioned States, each State whose citizens suffered fatalities or injuries on board the aircraft and the ICAO

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**65. In which situation would the wing lift of an aeroplane in straight and level flight have the highest value?**

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- a) Forward centre of gravity and take-off thrust
- b) Aft centre of gravity and idle thrust
- c) Aft centre of gravity and take-off thrust
- d) Forward centre of gravity and idle thrust

**66. Which of the following lists all the stages of flight when is it possible to change the route in the active flight plan on an FMS equipped aircraft?**

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- a) Only before the flight plan is activated
- b) Only before take-off
- c) Only once the aircraft is airborne.
- d) At any time before take-off and throughout the flight

**67. The maximum operating altitude for a certain aeroplane with a pressurised cabin**

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- a) Is dependent on aerodynamic ceiling.
- b) Is the highest pressure altitude certified for normal operation.
- c) Is only certified for four-engine aeroplanes.
- d) Is dependent on the OAT.

**68. According to EASA OPS 1 and assuming the following circumstances: for a category A airplane and aerodrome equipped with runway edge lighting and centre line lighting and multiple RVR information. An acceptable alternate aerodrome is available, the minimum RVR/Visibility required for take-off:**

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- a) 200 m
- b) 150 m
- c) 250 m
- d) 300 m

**69. 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

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## 70. Before Transmitting the pilot should:

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

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## Schema Risposte

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

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