

# Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

**01. In case of a serious threat based on the presence of a bomb on board a pressurized aircraft and disregarding any fuel considerations:**

- a) You descend to the flight level corresponding to the indicated cabin altitude or the safety altitude if higher and take preventive steps by putting yourself in a landing approach configuration.
- b) You go down to the level corresponding to the indicated cabin altitude and keep the airplane in a clean configuration until the final approach.
- c) You climb to the maximum flight level which does not need the use of pressurization.
- d) You carry out an emergency descent to reach the safety altitude.

**02. Due to a cabin pressurisation defect the maximum differential pressure is limited to 2 psi. Assuming the oxygen masks will be deployed at 14000 feet, the maximum achievable flight altitude is approximately:**

- a) 12000 ft
- b) 8600 ft
- c) 20750 ft
- d) 2900 ft

**03. When the length of day is measured with reference to the passage of the apparent Sun:**

- a) The length of the days, as indicated by our watch, will be exactly equal.
- b) The length of day will vary in the course of the year.
- c) The length of the day will vary with the latitude of the observer.
- d) The length of day will be the same once every month.

**04. Given: Maximum structural take-off mass: 7400 kg Maximum structural landing mass: 7400 kg Zero Fuel Mass: 5990 kg Taxi Fuel: 15 kg Contingency Fuel: 110 kg Alternate Fuel: 275 kg Final Reserve Fuel: 250 kg Trip Fuel: 760 kg The expected Landing Mass at destination will be:**

- a) 7385 kg
- b) 7400 kg
- c) 6625 kg
- d) 7135 kg

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**05. In accordance with OPS 1, for aeroplanes certified before the 1 April 1998, cockpit voice recorder (CVR), when required, must keep the conversations and sound alarms recorded during the last:**

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- a) 25 hours of operation.
- b) 30 minutes of operation.
- c) 48 hours of operation.
- d) Flight.

**06. How many feet you have to climb to reach FL 75? Given: FL 75 departure aerodrome elevation 1500' QNH = 1023 hPa temperature = ISA 1 hPa = 30'**

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- a) 6000'
- b) 6300'
- c) 7800'
- d) 5700'

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

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

**08. When climbing at a constant Mach number:**

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- a) CAS decreases.
- b) Difference between surrounding conditions and standard atmosphere must be known to deduce the CAS variation.
- c) CAS remains constant.
- d) CAS increases.

**09. The validity period of a night-time organised track system in MNPS (Minimum Navigation Performance Specification) airspace is normally at 30°W, between:**

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- a) 11H30 UTC to 18H00 UTC
- b) 10H30 UTC to 19H00 UTC
- c) 00H00 UTC to 08H00 UTC
- d) 01H00 UTC to 08H00 UTC

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**10. Flight information service provided to flights shall include the provision of information concerning collision hazards to aircraft operating in airspace classes:**

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- a) A to E (inclusive)
- b) A to G (inclusive)
- c) F and G
- d) C to G (inclusive)

**11. Prior to an IFR flight, when filling in the ATC flight plan, the time information which should be entered in box 16: 'Total estimated time' is the time elapsed from:**

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- a) Take-off until landing.
- b) Taxi-out prior to take-off until taxiing completion after landing.
- c) Taxiing until the IAF (Initial Approach Fix) of the destination aerodrome.
- d) Take-off until reaching the IAF (Initial Approach Fix) of the destination aerodrome.

**12. After SCUBA diving (more than 30 feet of depth) you have to wait a period of time before flying again. This period is at least:**

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- a) 12 hours
- b) 6 hours
- c) 48 hours
- d) 24 hours

**13. 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.

**14. An aeroplane, being manually flown in the speed unstable region, experiences a disturbance that causes a speed reduction. If the altitude is maintained and thrust remains constant, the aeroplane speed will:**

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- a) Further decrease.
- b) Initially further decrease and thereafter increase.
- c) Initially increase and thereafter decrease.
- d) Increase.

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

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- a) 1 to 4 oktas
- b) 5 to 7 oktas
- c) No clouds below 5000 feet
- d) 8 oktas below 10000 feet

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

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

**17. In cruise flight, a centre of gravity moving aft will:**

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- a) Decrease longitudinal static stability
- b) Not change the manoeuvrability
- c) Have no effect on longitudinal static stability
- d) Increase longitudinal static stability

**18. Products or materials are considered to be dangerous goods if the products or materials in question are defined as such by:**

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- a) The ICAO document entitled 'Technical Instructions for the safe transport of dangerous goods by air'
- b) The IATA document entitled 'Regulations governing the transportation of dangerous goods by air'
- c) The directives of the Community Union
- d) The UNO document entitled 'Dangerous Goods Regulations'

**19. Which of the following weather reports could be, in accordance with the regulations, abbreviated to 'CAVOK'?**

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- a) 00000KT 0100 FG VV001 11/11 Q1025 BECMG 0500 =
- b) 34004KT 7000 MIFG SCT260 09/08 Q1029 BECMG 1600 =
- c) 26012KT 8000 SHRA BKN025 16/12 Q1018 NOSIG =
- d) 27019G37KT 9999 BKN050 18/14 Q1016 NOSIG =

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**20. Given: TAS = 465 kt, Track (T) = 007°, W/V = 300/80kt. Calculate the HDG (°T) and GS?**

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- a) 001 - 435 kt
- b) 017 - 490 kt
- c) 358 - 428 kt
- d) 357 - 502 kt

**21. To resynchronize a circadian rhythm, it takes more time after:**

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- a) Westbound flights
- b) Eastbound flights
- c) South-north flights
- d) North-south flights

**22. What is the approximate value of the lift of an aeroplane at a gross weight of 50000 N, in a horizontal coordinated 45 degrees banked turn?**

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- a) 60000 N
- b) 50000 N
- c) 70000 N
- d) 80000 N

**23. Given that the characteristics of a three engine turbojet aeroplane are as follows: Thrust = 50000 Newton / Engine  $g = 10 \text{ m/s}^2$  Drag = 72569 N Minimum steady gradient of climb (2nd segment) = 2.7% SIN (Angle of climb) = (Thrust - Drag) / Weight The maximum take-off mass under 2nd segment conditions with 1 engine out is:**

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- a) 101596 kg
- b) 209064 kg
- c) 74064 kg
- d) 286781 kg

**24. Total pressure is: ( $\rho$  = density)**

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- a) Static pressure plus dynamic pressure.
- b) Measured at a small hole in a surface, parallel to the local stream.
- c)  $\frac{1}{2} \rho V^2$ .
- d) Static pressure minus dynamic pressure.

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## 25. Altitude-hypoxia, when breathing ambient air, should not usually occur (indifferent phase)

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- a) Between 3 000 m and 5 000 m
- b) Up to 5 000 m
- c) Between 5 000 m and 7 000 m
- d) Below 3 000 m

## 26. What is the Q-code for 'magnetic heading to the station (no wind)?

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- a) QNE
- b) QDR
- c) QTE
- d) QDM

## 27. How is oxygen mainly transported in the blood?

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- a) White blood cells.
- b) Plasma.
- c) Blood fat.
- d) Haemoglobin in the red blood cells.

## 28. The actual 'Zero Fuel Mass' is equal to the:

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- a) Operating Mass plus all the traffic load.
- b) Basic Empty Mass plus the fuel loaded.
- c) Dry Operating Mass plus the traffic load.
- d) Actual Landing Mass plus trip fuel.

## 29. 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

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**30. A checklist of AIP supplements currently in force shall be issued at intervals of:**

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- a) Not more than one month
- b) Not more than 2 months
- c) Not more than 28 days
- d) Not more than three months

**31. Given: Distance from departure to destination: 210 NM Endurance: 3,5 h True Track: 310 W/V: 270/30 TAS: 120 kt What is the distance of the PSR from the departure point?**

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- a) 200 NM
- b) 10 NM
- c) 100 NM
- d) 125 NM

**32. When an aircraft station receives the call 'ALL STATIONS Stephenville RADAR, distress traffic ended' it is requested:**

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- a) To resume normal communication with Stephenville RADAR
- b) Discontinue communication with Stephenville RADAR
- c) Acknowledge receipt of this message
- d) To impose silence to other stations in its vicinity

**33. Glaucoma is:**

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- a) High intra-ocular pressure
- b) Disturbed night vision
- c) Disturbed adaptation
- d) Disturbed colour vision

**34. A message concerning a protected medical transport operated by aircraft assigned exclusively to medical transportation shall be preceded by the signal:**

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- a) MEDICAL TRANSPORT
- b) PAN PAN MEDICAL
- c) PAN PAN TRANSPORT
- d) PROTECTED TRANSPORT

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**35. If you increase the propeller pitch during a glide with idle-power at constant IAS the lift to drag ratio will**

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- a) Decrease and the rate of descent will decrease.
- b) Increase and the rate of descent will increase.
- c) Decrease and the rate of descent will increase.
- d) Increase and the rate of descent will decrease.

**36. The principle of the Schuler pendulum is used in the design of a:**

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

**37. How shall a pilot inform the control tower that he is prepared for take-off:**

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- a) Ready for take-off
- b) Ready for departure or ready
- c) Ready to go
- d) Ready to line-up

**38. Which one of the following methods is used by a Microwave Landing System (MLS) to indicate distance from the runway threshold?**

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- a) Timing the interval between the transmission and reception of primary radar pulses from the aircraft to MLS station
- b) Measurement of the frequency shift between the MLS azimuth and elevation transmissions
- c) A precision facility DME
- d) + or - 50° of the runway centre-line

**39. Given: Distance from departure to destination 340 NM True track 320W/V 160/40 TAS 110 kt What is the distance of the PET from the departure point?**

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- a) 228 NM
- b) 112 NM
- c) 219 NM
- d) 121 NM



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**40. Which part of the vestibular apparatus is responsible for the detection of angular acceleration?**

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- a) The sacculus and utriculus
- b) The cochlea
- c) The Eustachian tube
- d) The semicircular canals

**41. OPS 1 establishes that, a co-pilot is not assigned to operate at the flight controls during take-off and landing unless:**

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- a) He has carried out as pilot-in-command or as co-pilot at least three take-off and three landings in an aeroplane or an approved flight simulator of the type used, in the preceding 90 days.
- b) He has operated as pilot-in-command or as co-pilot at the controls during take-off and landing of the type to be used in the preceding 90 days.
- c) He has carried out as-pilot-in-command or as co-pilot at least three take-off and three landings in an aeroplane or an approved flight simulator of the type used, in the preceding 30 days
- d) He has carried out at least three flights as pilot-in-command or as a co-pilot at the controls of the type to be used, in the preceding 90 days.

**42. 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

**43. According with the 'Aerodrome Reference Code' the 'Code number 4' shall identify an aircraft reference field length of:**

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- a) 1 500 m.
- b) 1 600 m.
- c) 1 200 m.
- d) 1 800 m and over.

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**44. What is the maximum distance at which you may expect strong VHF reception over flat terrain at FL 140 ?**

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- a) About 240 NM
- b) About 300 NM
- c) About 40 NM
- d) About 140 NM

**45. The orbital planes of the satellite navigation system NAVSTAR/GPS are:**

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- a) Inclined 90° to the equatorial plane
- b) Inclined 55° to the earth axis
- c) Parallel to the equatorial plane
- d) The deviation bar and/or pointer change colour to red and flash intermittently

**46. Where dangerous goods are carried on a flight which takes place wholly or partly outside the territory of a State, which language must be used on the transport document in addition to any other language ?**

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- a) Spanish
- b) French
- c) English, French, Spanish, Russian, Chinese
- d) English

**47. On an airplane, the Krueger flaps are:**

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- a) Trailing Edge Flaps Close To The Wing Tip.
- b) Trailing Edge Flaps Close To The Wing Root.
- c) Leading Edge Flaps Close To The Wing Tip.
- d) Leading edge flaps close to the wing root.

**48. For an aircraft flying a true track of 360° between the 5°S and 5°N parallels, the precession error of the directional gyro due to apparent drift is equal to:**

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- a) -5°/hour
- b) +5°/hour
- c) 15°/hour
- d) Approximately 0°/hour

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**49. Low intensity obstacle lights on fixed objects shall be:**

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- a) Flashing red.
- b) Flashing yellow.
- c) Fixed orange.
- d) Fixed red.

**50. The automatic flight control system (AFCS) in an aircraft is coupled to the guidance outputs from an inertial navigation system (INS). The aircraft is flying between inserted waypoints No. 3 (55°00'N 020°00'W) and No.4 (55°00'N 030°00'W). With DSRTK/STS selected on the CDU, to the nearest whole degree, the initial track read-out from waypoint No. 3 will be:**

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- a) 266°
- b) 278°
- c) 270°
- d) 274°

**51. What does the phrase 'Read back' mean:**

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- a) Repeat all, or the specified part, of this message back to me exactly as received
- b) Check and confirm with originator
- c) Did you correctly receive this message?
- d) Let me know that you have received and understood this message

**52. Given: Distance from departure to destination 1860 NM GS Out 360 KTGS Home 400 KT What is the time of the PET from the departure point?**

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- a) 132 min
- b) 147 min
- c) 163 min
- d) 22 min

**53. Who shall be satisfied, before flight, that the aircraft's weight is such that flight can be safely made, and that any transported cargo is properly distributed and secured?**

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- a) The flight engineer.
- b) The operator.
- c) The airline's dispatcher.
- d) The commander.

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## 54. An aircraft may be weighed

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- a) In an area of the airfield set aside for maintenance.
- b) In a quiet parking area clear of the normal manoeuvring area.
- c) At a specified 'weighing location' on the airfield.
- d) In an enclosed, non-air conditioned, hangar.

## 55. True Air Speed (TAS) is equal to Equivalent Air Speed (EAS) only if:

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- a)  $P = 1013,25 \text{ hPa}$ ,  $OAT = 15^\circ\text{C}$  and  $TAS > 200 \text{ kt}$ .
- b)  $P = 1013,25 \text{ hPa}$  and  $OAT = 273^\circ \text{ K}$ .
- c)  $P = 1013,25 \text{ hPa}$ ,  $OAT = 15^\circ\text{C}$  and  $TAS$
- d)  $P = 1013,25 \text{ hPa}$  and  $OAT = 15^\circ$

## 56. When the door operation of a transport airplane equipped with evacuation slides is controlled from the outside, the slide:

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- a) Becomes Inflated In Its Container Thus Preventing Its Unfolding.
- b) Unfolds but does not become inflated.
- c) Is disarmed automatically.
- d) Unfolds And Becomes Inflated.

## 57. An aeroplane suffers an explosive decompression at an altitude of 31000 ft . What is the initial action by the operating crew ?

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- a) To put on oxygen masks
- b) Place the seat belts sign to ON
- c) Transmit a MAYDAY message
- d) Disconnect the autopilot

## 58. What action should be taken by the aircraft station first receiving a distress message?

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- a) Ask the station to change to frequency 121.5 MHZ.
- b) Immediately acknowledge the distress message.
- c) Request position of the station in distress.
- d) Request the nature of emergency in progress, and request further intentions.

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**59. To measure the mass and CG-position of an aircraft, it should be weighed with a minimum of:**

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- a) 3 points of support
- b) 4 point of support
- c) 1 point of support
- d) 2 points of support

**60. Field length is balanced when:**

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- a) Calculated  $V_2$  is less than 110% VMCA and  $V_1$
- b) Take-off distance available equals accelerate stop distance available
- c) One engine acceleration from  $V_1$  to VLOF plus flare distance between VLOF and 35 feet are equal
- d) All engine acceleration to  $V_1$  and braking distance for rejected take-off are equal

**61. A leak in the pitot total pressure line of a non-pressurized aircraft to an airspeed indicator would cause it to:**

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- a) Over-read.
- b) Indication will drop to zero.
- c) Under-read.
- d) Freeze on the value it indicated at the time of failure.

**62. Which of the following statements is (are) correct with regard to the advantages of computer flight plans ?1. The computer can file the ATC flight plan.2. Wind data used by the computer is always more up-to-date than that available to the pilot.**

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- a) Both statements
- b) Statement 2 only
- c) Neither statement
- d) Statement 1 only

**63. The final stage of a thunderstorm is reached when:**

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- a) No further electrical charge is developed.
- b) A well developed anvil can be seen.
- c) All of the above.
- d) The lower portion of the cloud dissipates.

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**64. An aircraft in the northern hemisphere makes an accurate rate one turn to the right. If the initial heading was 330°, after 30 seconds of the turn the direct reading magnetic compass should read:**

- a) Less than 060°.
- b) More or less than 060° depending on the pendulous suspension used.
- c) 060°.
- d) More than 060°.

**65. Which of the following statements is correct? The blood-pressure which is measured during flight medical checks is the pressure**

- a) In the artery of the upper arm (representing the pressure at heart level)
- b) In the veins of the upper arm
- c) In the muscles of the upper arm
- d) In all the blood-vessels of the body (representing the pressure in the whole body)

**66. A signal sent by radiotelephony consisting of the spoken word MAYDAY MAYDAY MAYDAY means:**

- a) The aircraft has a very urgent message to transmit concerning the safety of a ship, aircraft or vehicle
- b) The aircraft has a message to transmit concerning adverse weather conditions along its route of flight
- c) Imminent danger threatens the aircraft and immediate assistance is required
- d) The aircraft is forced to perform a fuel dumping procedure

**67. Shuttle valves will automatically:**

- a) Guard Systems Against Over-pressure.
- b) Shut down systems which are overloaded.
- c) Reduce pump loads.
- d) Switch hydraulically operated units to the most appropriate pressure supply.

**68. The reason why pre take-off holding areas are sometimes further from the active runway when ILS Category 2 and 3 landing procedures are in progress than during good weather operations is:**

- a) Heavy precipitation may disturb guidance signals
- b) Aircraft manoeuvring near the runway may disturb guidance signals
- c) To increase aircraft separation in very reduced visibility conditions
- d) 156 NM

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**69. The frequency used for the first transmission of a 'MAYDAY' call shall be:**

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- a) Any other international emergency frequency
- b) The distress frequency 121.5 MHz
- c) Any frequency at pilot's discretion
- d) The frequency currently in use

**70. An aircraft is flying on a heading of 270°(M). The VOR OBS is also set to 270° with the full left deflection and FROM flag displayed. In which sector is the aircraft from the VOR ground station?**

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- a) NW
- b) NE
- c) SE
- d) 156 NM

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## Schema Risposte

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

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