

# 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 flight, the most commonly used anti-icing method for the wings of modern commercial aircraft fitted with turbo-jet units is:**

- a) Physical/chemical (glycol-based Liquid).
- b) Electrical (electrical resistances).
- c) Thermal (use of hot air).
- d) Mechanical (pneumatic Source Which Acts By Deforming The Profiles Of The Leading Edge).

**02. According to PART-FCL, an applicant for ATPL(A) shall have demonstrated the ability to perform as pilot-in-command, the procedures and manoeuvres of an aeroplane type certificated for:**

- a) The carriage of passengers at night.
- b) A minimum crew of two pilots plus a flight engineer.
- c) A minimum crew of two pilots under IFR
- d) Operations by pilots under training.

**03. Consider the steady flow through a stream tube where the velocity of the stream is  $V$ . An increase in temperature of the flow at a constant value of  $V$  will:**

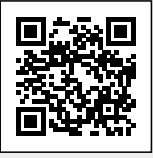
- a) Increase the mass flow
- b) Not affect the mass flow
- c) Decrease the mass flow
- d) Increase the mass flow when the tube is divergent in the direction of the flow

**04. The geometric shape of the reference system for the satellite navigation system NAVSTAR/GPS, defined as WGS 84, is:**

- a) A mathematical model that describes the exact shape of the earth
- b) A sphere
- c) An ellipsoid
- d) Only the 1575 MHz carrier wave and one code

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**05. What does not impair the function of the photosensitive cells?**

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- a) High speed
- b) Toxic influence (alcohol, nicotine, medication)
- c) Acceleration
- d) Oxygen deficiency

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**06. The consequences of exceeding Mcrit in a swept-wing aeroplane may be: (assume no corrective devices, straight and level flight)**

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- a) Engine unbalance and buffeting.
- b) An increase in speed and a tendency to pitch up.
- c) Buffeting of the aeroplane and a tendency to pitch up.
- d) Buffeting of the aeroplane and a tendency to pitch down.

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**07. After a rapid decompression at 35 000 feet, the time of useful consciousness is about:**

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- a) 15 seconds or less
- b) 30 to 60 seconds
- c) 10 minutes.
- d) 5 minutes.

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**08. On the readability scale what does READABILITY 1 mean?**

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- a) Readable but with difficulty.
- b) Unreadable.
- c) Readable.
- d) Perfectly readable.

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**09. According with DOC 4444 (ICAO), a wake turbulence non-radar separation minima of 3 minutes shall be applied:**

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- a) To a departing MEDIUM aircraft following a HEAVY aircraft arrival when operating on a runway with a displaced landing threshold
- b) To an arriving LIGHT aircraft following a MEDIUM aircraft departure when operating on a runway with a displaced landing threshold, if the projected flight paths are expected to cross
- c) To LIGHT aircraft taking-off behind a MEDIUM aircraft from an intermediate part of a parallel runway separated by less than 760 m
- d) Between a LIGHT aircraft and a MEDIUM aircraft making a missed approach and the LIGHT aircraft utilizing an opposite-direction runway for take-off

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**10. Given: VOR station position N61° E025°, variation 13°E. Estimated position of an aircraft N59° E025°, variation 20°E. What VOR radial is the aircraft on?**

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- a) 347°
- b) 167°
- c) 193°
- d) 160°

**11. When being engaged, and without selecting a particular mode, an automatic pilot enables:**

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- a) Aeroplane stabilisation with attitude hold or maintaining vertical speed and possibly automatic trim.
- b) Aeroplane piloting and guidance functions.
- c) All aeroplane piloting and guidance functions except maintaining radio-navigation course lines.
- d) A constant speed on track, wings horizontal.

**12. When the intruding aircraft is equipped with a transponder without altitude reporting capability, the TCAS (Traffic Collision Avoidance System) issues a:**

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- a) 'traffic advisory' and vertical 'resolution advisory'.
- b) 'traffic advisory' only.
- c) 'traffic advisory', vertical and horizontal 'resolution advisory'.
- d) 'traffic advisory' and horizontal 'resolution advisory'.

**13. 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

**14. Refer to CAP 696 Fig. 4.11: At the maximum landing mass the range of safe CG positions, as determined from the appropriate graph in the loading manual, is:**

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- a) Forward limit 7.4% MAC aft limit 27.0% MAC
- b) Forward limit 8.0% MAC aft limit 26.8% MAC
- c) Forward limit 8.6% MAC aft limit 27.0% MAC
- d) Forward limit 8.0% MAC aft limit 27.2% MAC

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**15. 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

**16. Concerning direct reading magnetic compasses, in the northern hemisphere, it can be said that:**

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- a) On an Easterly heading, a longitudinal acceleration causes an apparent turn to the South
- b) On an Easterly heading, a longitudinal acceleration causes an apparent turn to the North
- c) On a Westerly heading, a longitudinal deceleration causes an apparent turn to the North
- d) On a Westerly heading, a longitudinal acceleration causes an apparent turn to the South

**17. Search and RescueThe colour of droppable containers and streamers for food and water is:**

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- a) Red
- b) Black
- c) Blue
- d) Yellow

**18. Prior to departure an aircraft is loaded with 16500 litres of fuel at a fuel density of 780 kg/m<sup>3</sup>. This is entered into the load sheet as 16500 kg and calculations are carried out accordingly. As a result of this error, the aircraft is**

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- a) Lighter than anticipated and the calculated safety speeds will be too low
- b) Lighter than anticipated and the calculated safety speeds will be too high
- c) Heavier than anticipated and the calculated safety speeds will be too low.
- d) Heavier than anticipated and the calculated safety speeds will be too high

**19. The Basic Empty Mass is 4960 kg, the Dry Operating Mass is 5220 kg and the Zero Fuel Mass is 6040 kg.If the take-off mass is 7630 kg the useful load is**

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- a) 1590 kg
- b) 2670 kg
- c) 820 kg
- d) 2410 kg

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**20. Refer to the Student Pilot Route Manual: E LO 2An appropriate flight level for flight on airway B3 from CHATILLON CTL 117.6 (49°08'N 003°35'E) to CAMBRAI CMB 112.6 (50°14'N 003°09'E) is:**

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- a) FL50
- b) FL80
- c) FL170
- d) FL60

**21. A category II precision approach (CAT II) is an approach with:**

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- a) A decision height of at least 200 ft
- b) A decision height of at least 100 ft
- c) No decision height
- d) A decision height of at least 50 ft

**22. With regard to the average influence of age on pilot performance, it may be said that age:**

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- a) Sharply reduces performance without, however, affecting cognitive capabilities
- b) Has little impact when the pilot is able to compensate for it by his/her flight experience
- c) Increases in impact as speed of thought and memory deteriorate
- d) Has a major impact owing to the impairment of memory

**23. 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

**24. A "trip-free" type circuit breaker is a circuit protection device which:**

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- a) Is Free From The Normal Cb Tripping Characteristic.
- b) Will not allow the contacts to be held closed while a current fault exists in the circuit.
- c) Will allow the contacts to be held closed in order to clear a fault in the circuit.
- d) Can Be Reset At Any Time.

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**25. A State shall provide assistance to an aircraft subjected to an act of unlawful seizure. This assistance includes:**

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- a) Provision of navigation aids, air traffic services, permission to land and refuelling
- b) Provision of navigation aids, air traffic services, permission to land and catering for passengers
- c) Provision of navigation aids, air traffic services and permission to land
- d) Only permission to land

**26. 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

**27. Distress is defined as:**

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- a) A condition concerning the safety of an aircraft or of a person on board, but which does not require immediate assistance
- b) A condition concerning the attitude of an aircraft when intercepting the localizer during an ILS approach
- c) A condition of being threatened by serious and/or imminent danger and requiring immediate assistance
- d) A condition concerning the safety of a person on board or within sight and requiring immediate assistance

**28. When completing an ATC flight plan for a flight commencing under IFR but possibly changing to VFR, the letters entered in Item 8 (FLIGHT RULES) would be:**

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- a) G
- b) N/S
- c) X
- d) Y

**29. 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

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**30. Refer to the General Student Pilot Route Manual ED-4: Flying VFR from PEITING (47°48.0'N, 010°55.5'E) to IMMENSTADT (47°33.5'N, 010°13.0'E). Determine the minimum altitude within a corridor 5 NM left and 5 NM right of the course line in order to stay 1000' clear of obstacles.**

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- a) 5500'
- b) 6600'
- c) 6900'
- d) 5300'

**31. An aircraft flying above FL 410 in North Atlantic (NAT) Airspace is unable to continue flight in accordance with its air traffic control clearance, but is able to maintain its assigned level, and due to a total loss of communications capability, cannot obtain a revised clearance from ATC. The aircraft should leave its assigned route or track by turning 90° (90 degrees) to the right or left whenever this is possible, and turn to acquire and maintain in either direction track laterally separated by 30 NM from its assigned route and:**

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- a) Climb 1 000 ft or descent 500 ft
- b) Climb or descent 500 ft
- c) The aircraft should leave its assigned route or track by turning 90° (90 degrees) to the right or left whenever this is possible, and turn to acquire and maintain in either direction track laterally separated by 30 NM from its assigned route and: climb 1 000 ft or descent 500 ft climb or descent 500 ft climb 500 ft or descend 1 000 ft
- d) Climb or descend 1 000 ft

**32. If an aeroplane flies in the ground effect**

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- a) The effective angle of attack is decreased
- b) The lift is increased and the drag is decreased
- c) Drag and lift are reduced
- d) The induced angle of attack is increased

**33. With respect to a single-engine piston powered aeroplane, determine the zero fuel moment (lbs.in./100) in the following conditions: Basic Empty Mass: 2415 lbs. Arm at Basic Empty Mass: 77,9 In. Cargo Zone A: 350 lbs. Baggage Zone B: 35 lbs. Pilot and front seat passenger: 300 lbs (total)**

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- a) 6675
- b) 2496,3
- c) 2548,8
- d) 2311,8

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**34. If the EPR probe becomes covered with ice, EPR indications will be:**

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- a) Less than the actual
- b) Equal to the actual
- c) Greater than the actual
- d) Not available

**35. In a mountain-valley wind circulation, the mountain wind blows**

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- a) At night up from the valley
- b) During the day down from the mountains
- c) At night down from the mountains
- d) During the day up from the valley

**36. Which statements is true?**

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- a) Civil twilight at the equator lasts longer than at 60°N or 60°S because the radius of the equator is larger than the radius of the 60°parallel.
- b) The duration of the civil twilight on 21st of march and on 23rd of September is equal at all places on Earth independent of latitude.
- c) The declination of the Sun and the latitude of the observer will affect the duration of civil twilight.
- d) Only the declination of the Sun will affect the duration of civil twilight.

**37. For an ATC flight plan filed before the flight, the indicated time of departure is:**

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- a) The time at which the flight plan is filed.
- b) The estimated off-block time
- c) The time overhead the first reporting point after take-off.
- d) The time of take-off.

**38. Compared with an oblique shock wave at the same Mach number a normal shock wave has a**

---

- a) Higher total pressure.
- b) Higher total temperature.
- c) Higher loss in total pressure.
- d) Lower static temperature.



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**39. What is the average track (°M) and distance between KER NDB (N5210.9 W00931. 5) and CRN NDB (N5318.1 W00856. 5)?**

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- a) 9L - 105 kt
- b) 10L - 104 kt
- c) 8R - 104 kt
- d) 9R - 108 kt

**40. What is meant by the term 'complacency'?**

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- a) An agreement between captain and co-pilot due to Crew Resources Management
- b) To question possible solutions
- c) Physiological consequences on pilots because of fear of flying
- d) Unjustified self-confidence

**41. The function of the slot between an extended slat and the leading edge of the wing is to:**

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- a) Cause a venturi effect which energizes the boundary layer
- b) Slow the air flow in the slot so that more pressure is created under the wing
- c) Reduce the wing loading
- d) Allow space for vibration of the slat

**42. The passage of a warm front can be associated with areas of fog. The types of fog just in advance and just after the passage are respectively**

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- a) Frontal fog and advection fog
- b) Advection fog and steaming fog
- c) Arctic smoke and frontal fog
- d) Advection fog and radiation fog

**43. 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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**44. A red or an amber light on an undercarriage position indicator signifies:**

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- a) All Wheels Are Up And Locked.
- b) At least one wheel is in the travelling or unlocked condition.
- c) The landing has been selected down using the emergency extension system.
- d) All Wheels Are Down And Locked.

**45. The empty mass of an aeroplane is given as 44800 kg. Operational items (including crew standard mass of 1060 kg) are 2300 kg. If the maximum zero fuel mass is given as 65500 kg, the maximum traffic load which could be carried is:**

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- a) 23000 kg
- b) 20700 kg
- c) 19460 kg.
- d) 18400 kg

**46. Which of the following answers is true?**

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- a) V1 is higher VLOF
- b) V1 is lower or equal to VR
- c) V1 is lower VMCG
- d) V1 is higher VR

**47. When preparing to carry out the weighing procedure on an aircraft, which of the following is not required?**

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- a) Drain all chemical toilet fluid tanks.
- b) Drain all usable fuel.
- c) Removable passenger services equipment to be off-loaded.
- d) Drain all engine tank oil.

**48. The angular difference, on a Lambert conformal conic chart, between the arrival and departure track is equal to:**

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- a) Earth convergence
- b) Conversion angle
- c) Chart convergence
- d) Difference in longitude

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## 49. What are the standard masses used for crew?

---

- a) 88 kgs for flight crew, 76 kgs cabin crew, not including baggage
- b) 85 kgs for flight crew, 75 kgs cabin crew, not including hand baggage
- c) 88 kgs for flight crew, 76 kgs cabin crew, including baggage.
- d) 85 kgs for flight crew, 75 kgs cabin crew, including hand baggage

## 50. What does the abbreviation 'H24' mean?

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- a) Sunrise to sunset
- b) Continuous day and night service
- c) No specific working hours
- d) Sunset to sunrise

## 51. What is the average track (°T) and distance between SLG NDB (N5416.7 W00836.0) and CFN NDB (N5502.6 W00820. 4)?

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- a) 43°
- b) 52°
- c) 29°
- d) 57°

## 52. The assessment of risk in a particular situation will be based on

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- a) Subjective perception and evaluation of situational factors
- b) Situational factors only
- c) The emergency checklist only
- d) External factors only

## 53. What is the inclination to the equatorial plane of the satellite's orbit in the NAVSTAR GPS constellation?

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- a) 45°
- b) 55°
- c) 65°
- d) WGS 84

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**54. Which one of the following precipitation types gives the most severe icing?**

---

- a) Snowfall.
- b) Freezing rain.
- c) Ice pellets.
- d) Mixed rain and snow.

**55. For a twin-engine aeroplane, the standard operational take-off minimums may be used provided an alternate aerodrome is accessible at less than:**

---

- a) 30 minutes at cruising speed with one engine unserviceable.
- b) 30 minutes at cruising speed all engines running.
- c) 60 minutes at cruising speed with one engine unserviceable.
- d) 60 minutes at cruising speed all engines running.

**56. What weather is prevalent in easterly waves?**

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- a) Thunderstorms and rain.
- b) Frontal weather.
- c) Clear skies.
- d) Continuous rain.

**57. From your cruising altitude at FL 240, you want to descend to flight level 100. Your transmission to the radar controller is:**

---

- a) Request descent to flight level one-zero-zero
- b) We would like to start descent to flight level one-zero-zero
- c) Request to descend one-hundred
- d) Request flight level one-hundred

**58. A current limiter fuse in a DC generation system is used to:**

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- a) Limit The Current In The Field Circuit.
- b) Allow a short term overload before rupturing.
- c) Limit the current in the armature.
- d) Instantaneously Rupture To Limit The Current In The Load.

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**59. On board a non-pressurized aircraft, the crew and all the passengers must be fed with oxygen throughout the flight period during which the pressure altitude is greater than:**

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- a) 13 000 ft
- b) 10 000 ft
- c) 11 000 ft
- d) 12 000 ft

**60. For a non pressurised aircraft, 100% of passengers shall be supplied with supplemental oxygen during:**

---

- a) The entire flight time after 30 minutes at pressure altitudes greater than 10 000 ft but not exceeding 13 000 ft
- b) The entire flight time at pressure altitudes above 10 000 ft
- c) The entire flight time at pressure altitudes above 13 000 ft and for any period exceeding 30 minutes at pressure altitudes above 10 000 ft but not exceeding 13 000 ft
- d) The entire flight time at pressure altitudes above 13 000 ft

**61. The aerodynamic drag of a body, placed in a certain airstream depends amongst others on:**

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- a) The airstream velocity
- b) The CG location of the body
- c) The weight of the body
- d) The specific mass of the body

**62. Lights indicating the possible need for future corrective action must be:**

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- a) Red.
- b) Amber.
- c) Magenta.
- d) Red and white striped.

**63. 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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## 64. The privileges of the holder of a commercial pilot licence-aeroplane shall be:

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- a) To act as pilot-in command in any aeroplane engaged in operations other than commercial air transportation
- b) None of the answers are correct
- c) To act as pilot in command in any aeroplane certificate for single pilot operation other than in commercial air transportation
- d) To act as pilot in command in any aeroplane engaged in commercial air transportation

## 65. A Stand-by-horizon or emergency attitude indicator:

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- a) Is automatically connected to the primary vertical gyro if the alternator fails
- b) Is fully independent of external energy resources in an emergency situation
- c) Contains its own separate gyro
- d) Only works if there is a complete electrical failure

## 66. VNO is the maximum speed:

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

## 67. Learning to fly naturally induces stress in a student pilot because he is lacking experience. Manifestations of this type of stress are:1. nervousness and channellized attention2. being rough at the controls3. smoke and drink much more alcohol than usual4. airsickness, lack of sleep

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

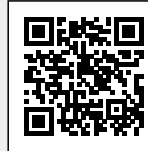
## 68. The floor of the main cargo hold is limited to 4000 N/m<sup>2</sup>. It is planned to load a cubic container each side of which measures 0.5 m. Its maximum gross mass must not exceed:(assume $g=10\text{m/s}^2$ )

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- a) 1000 kg
- b) 100 kg
- c) 5000 kg
- d) 500 kg

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**69. During certification test flights for a turbojet aeroplane, the actual measured take-off runs from brake release to a point equidistant between the point at which VLOF is reached and the point at which the aeroplane is 35' above the take-off surface are:- 1747 m, all engines operating- 1950 m, with the critical engine failure recognized at V1, the other factors remaining unchanged. Considering both possibilities to determine the take-off run (TOR). What is the correct distance?**

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- a) 2243 m
- b) 2096 m
- c) 2009 m
- d) 1950 m

**70. Prolonged running at low rpm can have an adverse effect on the functioning of the:**

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- a) Carburettor.
- b) Sparking plugs.
- c) Fuel filter.
- d) Oil Pump.

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## Schema Risposte

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

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