

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. The temperature at FL 140 is -12°C. What will the temperature be at FL 110 if the ICAO standard lapse rate is applied?

- a) -18°C
- b) -6°C
- c) What will the temperature be at FL 110 if the ICAO standard lapse rate is applied? -18°C -6°C -15°C
- d) -9°C

02. 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?

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

03. The QNH is by definition the value of the:

- a) Atmospheric pressure at the location for which it is given, corrected for non-standard temperature.
- b) Altimeter setting so that the altimeter, on the apron of the aerodrome for which it is given, reads zero.
- c) Altimeter setting so that the altimeter, on the apron of the aerodrome for which it is given, reads the elevation.
- d) Atmospheric pressure at the level of the ground overflown by the aircraft.

04. In decision-making, the selection of a solution depends on:
1. objective and subjective criteria
2. the objective to be achieved
3. the risks associated with each solution
4. the personality of the decision-maker

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

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05. Which of the following phenomena are formed when a moist, stable layer of air is forced to rise against a mountain range ?

- a) Inversions
- b) Stratified clouds
- c) Areas of severe turbulence
- d) Showers and thunderstorms

06. In accordance with EASA-OPS, an operator must ensure that the MDH for an ILS approach without the glidepath (LLZ only) is not lower than:

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

07. A Rhumb line is:

- a) The shortest distance between two points on a Polyconic projection
- b) A line on the surface of the Earth cutting all meridians at the same angle
- c) A line convex to the nearest pole on a Mercator projection
- d) Any straight line on a Lambert projection

08. How does a receiver of the NAVSTAR/GPS satellite navigation system determine the elevation and azimuth data of a satellite relative to the location of the antenna?

- a) The data is stored in the receiver together with the Pseudo Random Noise (PRN) code
- b) It calculates it by using Almanac data transmitted by the satellites
- c) The data is determined by the satellite and transmitted together with the navigation message
- d) 6

09. You are flying from A (50°N 10°W) to B (58°N 02°E). If initial great circle track is 047°(T) what is final great circle track?

- a) 255/25kt
- b) 257/35kt
- c) 265/30kt
- d) 260/30kt

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10. Isobars on a surface chart are lines of equal

- a) QFE
- b) QNE
- c) QFF
- d) QNH

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

- 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

12. Long range cruise is a flight procedure which gives:

- a) A specific range which is approximately 99% of maximum specific range and a higher cruise speed
- b) A specific range which is approximately 99% of maximum specific range and a lower cruise speed
- c) An IAS which is 1% higher than the IAS for maximum specific range
- d) A 1% higher TAS for maximum specific range

13. A pilot engages the control wheel steering (CWS) of a conventional autopilot and carries out a manoeuvre in roll. When the control wheel is released, the autopilot will:

- a) Roll wings level and maintain the heading obtained at that moment.
- b) Restore the flight attitude and the rate of turn selected on the autopilot control display unit.
- c) Maintain the track and the flight attitude obtained at that moment.
- d) Maintain the flight attitude obtained at that moment.

14. Which phrase shall be used if the repetition of an entire message is required:

- a) Say again
- b) Repeat your last transmission
- c) What was your message?
- d) Repeat your message

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15. In an aircraft electrical system where AC generators are not paralleled mounted, the changeover relay allows:

- a) Connection Of The Ac Generator To Its Distribution Busbar.
- b) Connection of the ground power truck to its distribution busbar.
- c) Power supply to the faulty AC generators busbar.
- d) Connection Of The Auxiliary Power Unit (apu) To Its Main Busbar.

16. Within the Annex to the ICAO convention that specifies dimensions of aerodromes are codes for different runways. Which is the minimum width of a runway with runway code 4?

- a) 35 metres
- b) 40 metres
- c) 45 metres
- d) 50 metres

17. When the air has passed through a normal shock wave the Mach number is

- a) Lower than before but still greater than 1.
- b) Equal to 1.
- c) Less than 1.
- d) Higher than before.

18. What is the radiotelephony call sign suffix for the aeronautical station indicating aerodrome control service:

- a) AERODROME
- b) CONTROL
- c) APRON
- d) TOWER

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

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

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20. The purpose of a chip detector in the oil system of an engine/gearbox is to indicate that:

- a) The Seals Are Worn.
- b) The piston rings are worn.
- c) The oil temperature is too high.
- d) There are metal particles in the oil.

21. Between which latitudes are you most likely to find the subtropical high-pressure belt ?

- a) 35° - 55°.
- b) 10° - 15°.
- c) 55° - 75°.
- d) 25° - 35°.

22. The Mean Aerodynamic Chord (MAC) for a given wing of any planform is

- a) The chord of a large rectangular wing
- b) The average chord of the actual aeroplane
- c) The chord of a rectangular wing with same moment and lift
- d) The wing area divided by the wing span

23. The induced drag of an aeroplane:

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

24. Due to a cabin pressurisation defect the maximum differential pressure is limited to 3 psi. Assuming the oxygen masks will be deployed at 14000 feet, the maximum achievable flight altitude is approximately:

- a) 22500 ft
- b) 24500 ft
- c) 29000 ft
- d) 27000 ft

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

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

26. When power assisted controls are used for pitch control:

- a) Trimming is superfluous.
- b) A part of the aerodynamic forces is still felt on the column.
- c) They only function in combination with an elevator trim tab.
- d) Aerodynamic balancing of the control surfaces is meaningless.

27. On a reciprocating engine aeroplane, with increasing altitude at constant gross mass, angle of attack and configuration the power required:

- a) Decreases slightly because of the lower air density
- b) Increases but TAS remains constant
- c) Remains unchanged but the TAS increases
- d) Increases and the TAS increases by the same percentage

28. The function of the rudder limiter system is:

- a) To Restrict The Rudder Deflection During Flight At High Altitudes.
- b) To Limit Pedal Movement In Heavy Turbulence.
- c) To restrict rudder deflection during flight at high ias.
- d) To Reduce Pilot's Workload During Engine Failure.

29. Air Traffic Service unit means:

- a) Air Traffic Control units and Flight Information Centres.
- b) Air Traffic Control units, Flight Information Centres or Air Traffic Services reporting offices.
- c) Flight Information Centres and Air Services reporting offices.
- d) Air Traffic Control units and Air Services reporting offices.

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30. Given: The coordinates of the heliport at Issy les Moulineaux are N48°50' E002°16.5'. What are the coordinates of the position directly on the opposite side of the earth?

- a) S48°50' E177°43.5'
- b) S48°50' W177°43.5'
- c) S41°10' E177°43.5'
- d) S41°10' W177°43.5'

31. In the event of a contingency which required an en-route diversion to an alternate aerodrome across the direction of the prevailing 'NAT' traffic flow and if prior ATC clearance cannot be obtained an aircraft not able to maintain its assigned flight level should:

- a) Start its climb or descent while turning to acquire an offset by 90 NM from its assigned route or track.
- b) Start its climb or descent while turning to acquire an offset by 60 NM from its assigned route or track.
- c) Descend below FL275.
- d) Start its climb or descent while turning to acquire an offset by 30 NM from its assigned route or track.

32. The rhumb line track between position A (45°00'N, 010°00'W) and position B (48°30'N, 015°00'W) is approximately:

- a) 330
- b) 300
- c) 315
- d) 345

33. Which of the following is most likely to be overlooked should a pilot make a rushed decision?

- a) The skills of air traffic controllers
- b) Analysis of the current actual situation and instead applying a decision prepared beforehand
- c) The captain's superior knowledge, justified by his/her status
- d) The need to take account of every possible result or outcome

34. What is the average height of the arctic jet stream core?

- a) 30000 FT.
- b) 20000 FT .
- c) 50000 FT.
- d) 40000 FT.

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35. A useful method of a pilot resolving, during a visual flight, any uncertainty in the aircraft's position is to maintain visual contact with the ground and:

- a) Set heading towards a line feature such as a coastline, motorway, river or railway
- b) Fly reverse headings and associated timings until the point of departure is regained
- c) Fly expanding circles until a pinpoint is obtained
- d) Fly the reverse of the heading being flown prior to becoming uncertain until a pinpoint is obtained

36. In the ATC flight plan item 7, for a radio equipped aircraft, the identifier must always:

- a) Include the aircraft registration marking
- b) Include the operating agency designator
- c) Be the RTF callsign to be used
- d) Include an indication of the aircraft type

37. What effect has a tailwind on the maximum endurance speed?

- a) No effect
- b) The IAS will be decreased
- c) The IAS will be increased
- d) Tailwind only effects holding speed

38. My message will be more effective and understandable if I:

- a) Use the words twice method
- b) Stress the end of message
- c) Maintain the speaking volume at a constant level
- d) Stress every beginning of message

39. During a climb, the total pressure probe of the airspeed indicator becomes blocked

- a) If the pilot maintains a constant indicated airspeed, the true airspeed:
- b) Increases until reaching VMO.
- c) Decreases by 1% per 600 FT.
- d) Decreases until reaching the stall speed.

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40. The purpose of an accumulator in a hydraulic system is:

- a) To Bypass The Pumps In The Hydraulic System.
- b) To eliminate the fluid flow variations.
- c) To enable the starting of hydraulic devices.
- d) To damp the fluid pressure variations.

41. 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:

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

42. A Foehn wind occurs on the

- a) Windward side of a mountain range and is caused by surface heating
- b) Leeward side of a mountain range and is caused by significant moisture loss by precipitation from cloud
- c) Leeward side of a mountain range and is caused by the condensation level being lower on the leeward side than on the windward side
- d) Windward side of a mountain range and is caused by surface cooling and reverse air flow

43. Which one is the most correct statement regarding the range of the DME system?

- a) Operates on the principle of phase comparison
- b) Operates on VHF
- c) Has unlimited range due to ground wave propagation
- d) The range is limited to the line of sight.

44. Before Transmitting the pilot should:

- 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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45. Where on a Direct Mercator projection is the chart convergency correct compared to the earth convergency?

- a) At the poles.
- b) At the two parallels of tangency.
- c) All over the chart.
- d) At the equator.

46. According to Rasmussen's model, errors in rule-based control mode are of the following type(s):

- a) Routine errors
- b) Handling errors
- c) Errors of technical knowledge
- d) Creative errors

47. In order to provide an adequate 'buffet boundary' at the commencement of the cruise a speed of 1.3 Vs is used. At a mass of 120000 kg this is a CAS of 180 KT. If the mass of the aeroplane is increased to 135000 kg the value of 1.3 Vs will be:

- a) Increased to 191 KT, drag will increase and air distance per kg of fuel will decrease.
- b) Increased to 202 KT but, since the same angle of attack is used, drag and range will remain the same.
- c) Increased to 191 KT, drag will decrease and air distance per kg of fuel will increase.
- d) Unaffected as Vs always occurs at the same angle of attack.

48. When an aircraft is stationary on the ground, its total weight will act vertically

- a) Through its centre of pressure.
- b) Through its centre of gravity.
- c) Through a point defined as the datum point.
- d) Through the main wheels of its undercarriage assembly.

49. At what approximate latitude is the length of one minute of arc along a meridian equal to one NM (1852 m) correct?

- a) 90°
- b) 0°
- c) 30°
- d) 45°

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50. Bernoulli's equation can be written as:(pt = total pressure, ps = static pressure, q = dynamic pressure)

- a) $P_t = p_s - q$
- b) $P_t - q = p_s$
- c) $P_t = q - p_s$
- d) $P_t + p_s = q$

51. The holder of a pilot licence, when acting as co-pilot of an aircraft required to be operated with a co-pilot, shall be entitled to be credit with not more than:

- a) 40 % of the co-pilot flight time towards, the total flight time required for a higher grade of a pilot licence
- b) 50 % of the co-pilot flight time towards the total flight time required for a higher grade of pilot licence
- c) 60 % of the co-pilot flight time towards, the total flight time required for a higher grade of a pilot licence
- d) 100 hours of flying time required for a higher grade of a pilot licence

52. The fuel system boost pumps are used to:

- a) Feed The Fuel Control Units, Which Inject The Pressurized Fuel Into The Engine.
- b) Avoid the bubbles accumulation.
- c) Avoid the bubbles accumulation and feed the lines with fuel for directing it to the engine at a positive pressure.
- d) Feed The Lines With Fuel For Directing It To The Engine At A Positive Pressure.

53. Definitions What is:A manoeuvre in which a turn is made away from a designated track followed by a turn in the opposite direction to permit the aircraft to intercept and proceed along the reciprocal of the designated track:

- a) Race track.
- b) Base turn.
- c) Reversal track.
- d) Procedure turn.

54. The force exactly opposing and balance lift in a glide descent is:

- a) Thrust x $\sin(\text{angle of descent})$
- b) Weight x $\sin(\text{angle of descent})$
- c) Weight x $\cos(\text{angle of descent})$
- d) Thrust x $\cos(\text{angle of descent})$

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55. The term 'useful load' as applied to an aircraft includes

- a) Traffic load plus usable fuel.
- b) The revenue-earning portion of traffic load plus useable fuel.
- c) The revenue-earning portion of traffic load only.
- d) Traffic load only.

56. Accommodation, which enables a clear image to be obtained, is accomplished by which of the following?

- a) The rods
- b) The crystalline lens
- c) The retina
- d) The cones

57. Which of the following correctly describes the Instrument Landing System (ILS) localiser radiation pattern?

- a) A pencil beam comprising a series of smaller beams each carrying a different modulation
- b) Two overlapping lobes on the same UHF carrier frequency
- c) Two overlapping lobes on different radio carrier frequencies but with the same modulation
- d) Two overlapping lobes on the same VHF carrier frequency

58. An aircraft squawking 7700 indicates to the ground station that:

- a) The aircraft's transceiver is unserviceable.
- b) The aircraft is in distress.
- c) The aircraft is being hijacked.
- d) There is a sick passenger on board.

59. Except for airplanes under 5,7 t airworthiness certificate of which is subsequent to 31 march 1998, a flight data recording system must be able to store the recorded data for a minimum of the last:

- a) 30 minutes.
- b) 10 hours.
- c) 60 minutes.
- d) 25 hours.

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60. On a normally aspirated engine (non turbo-charged), the manifold pressure gauge always indicates...

- a) A Greater Value Than Atmospheric Pressure When The Engine Is Running.
- b) A lower value than atmospheric pressure when the engine is running.
- c) A value equal to the QFE when the engine is at full power on the ground.
- d) Zero On The Ground When The Engine Is Stopped.

61. What is the average track (°T) and distance between CON VOR (N5354.8 W00849. 1) and BEL VOR (N5439.7 W00613.8)?

- a) 063° - 101 NM
- b) 293° - 98 NM
- c) 113° - 97 NM
- d) 071° - 100 NM

62. On starting, in a brushless AC generator with no commutator rings, the generator is activated by:

- a) A set of permanent magnets.
- b) The auxiliary winding.
- c) The stabilizer winding jointly with the voltage regulator.
- d) The Main Field Winding.

63. 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:

- 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.

64. The speed V2 is defined for jet aeroplane as:

- a) Take-off decision speed
- b) Lift off speed
- c) Critical engine failure speed
- d) Take-off climb speed or speed at 35'

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65. In the JAR OPS, a runway is considered damp when:

- a) Its surface is not dry, and when surface moisture does not give it a shiny appearance.
- b) It is covered with a film of water of less than 1 mm.
- c) It is covered with a film of water of less than 3 mm.
- d) Surface moisture gives it a shiny appearance.

66. A wind sounding in the region of a polar front jet stream gives the following wind profile (Northern hemisphere): 900 hPa 220/20kt 800 hPa 220/25kt 700 hPa 230/35kt 500 hPa 260/60kt 400 hPa 280/85kt 300hPa 300/100kt 250hPa 310/120kt 200hPa 310/80kt Which system is the jet stream associated with?

- a) With a ITCZ
- b) With a cold front
- c) With an easterly wave
- d) With a warm front

67. During a deceleration phase at constant attitude, the control system of the artificial horizon results in the horizon bar indicating a

- a) Nose down attitude.
- b) Nose up followed by a nose down attitude.
- c) Constant attitude.
- d) Nose up attitude.

68. The landing reference speed VREF has, in accordance with CS 25, the following margins above reference stall speed in landing configuration:

- a) 23%
- b) 10%
- c) 20%
- d) 15%

69. To fight a fire in an air-conditioned cargo hold:

- a) Extinguish fire only.
- b) Extinguish fire and reduce air conditioning.
- c) Fire-fighting is not necessary, since the transport of combustible goods in an air-conditioned cargo hold is forbidden.
- d) You turn off the cargo hold ventilation and extinguish fire.

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70. Regarding the DME system, which one of the following statements is true?

- a) The transponder reply carrier frequency differs by 63 MHz from that of the interrogation signal.
- b) When passing overhead the DME station the DME will indicate 0.
- c) The DME measures the phase difference between the reference and variable phase signals to calculate the distance.
- d) The four letter SELCAL code

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Schema Risposte

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

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