

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. Interference drag is the result of:

- a) Separation of the induced vortex
- b) Downwash behind the wing
- c) The addition of induced and parasite drag
- d) Aerodynamic interaction between aeroplane parts (e.g. wing / fuselage)

02. When flying at night the first sense to be affected by a slight degree of hypoxia is the

- a) Sense of balance
- b) Cochlea
- c) Proprioceptive sensitivity
- d) Vision

03. In order to avoid confusion, the identification numbers given to each prohibited area, restricted area and danger area shall not be re-used for a period of

- a) At least 6 months after cancellation of the area to which they refer
- b) At least one year after cancellation of the area to which they refer
- c) At least 2 months after cancellation of the area to which they refer
- d) At least 3 months after cancellation of the area to which they refer

04. What is a VDF referenced to?

- a) Magnetic north at the aircraft
- b) True north at the aircraft
- c) Magnetic north at the station
- d) Relative bearing to the aircraft

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05. 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)?

- 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

06. A "Bourdon tube" is used in:

- a) Smoke detectors.
- b) Vibration detectors.
- c) Turbine temperature probes.
- d) Pressure sensors.

07. Fallstreaks or virga are:

- a) Strong downdraughts in the polar jet stream, associated with jet streaks
- b) Gusts associated with a well developed Bora
- c) Water or ice particles falling out of a cloud that evaporate before reaching the ground
- d) Strong katabatic winds in mountainous areas and accompanied by heavy precipitation

08. If the outside temperature at 35 000 feet is -40°C, the local speed of sound is:

- a) 247 kt.
- b) 307 kt.
- c) 595 kt.
- d) 686 kt.

09. An aircraft is flying north-east at 2500 feet. TOWER requests heading and level. What is the correct response:

- a) Heading north-east at level 25
- b) Heading 045 at 2500 feet
- c) 045 and 2500
- d) Heading 45 at 2500 feet

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10. Hard iron magnetism in aircraft may be caused by:

- a) All answers are correct.
- b) A strike of lightning.
- c) Magnetic qualities of the cargo or baggage.
- d) Steel components, mainly in engines and undercarriage.

11. The richness of a fuel/air mixture ratio is the:

- a) Volume Of Fuel Relative To The Volume Of Air.
- b) Mass of fuel relative to the volume of air.
- c) Volume of fuel relative to the mass of the volume of air.
- d) Real mixture ratio relative to the theoretical ratio.

12. After having programmed your flight director, you see that the indications of your ADI (Attitude Director indicator) are as represented in diagram N°1 of the appended annex. On this instrument, the command bars indicate that you must:

- a) Decrease the flight attitude and bank your airplane to the left until the command bars recentre on the symbolic aeroplane.
- b) Increase the flight attitude and bank your aeroplane to the right until the command bars recentre on the symbolic aeroplane.
- c) Decrease the flight attitude and bank your airplane to the right until the command bars recentre on the symbolic aeroplane.
- d) Increase the flight attitude and bank your airplane to the left until the command bars recentre on the symbolic aeroplane.

13. In what flight phase are the outboard ailerons (if present) not operated ?

- a) During cruise flight.
- b) During a landing with strong and gusty crosswind to avoid overcontrolling the aeroplane.
- c) In the approach phase, before landing.
- d) During take-off, until lift-off.

14. An Air Traffic Control Unit:

- a) May ask an aircraft to temporarily change its call sign for safety reasons when there is a risk of confusion between two or more similar call signs.
- b) Must not ask an aircraft to change its call sign.
- c) May require to change the call sign for safety reasons when there is a risk of confusion between two or more similar call signs providing the aircraft is on a repetitive flight plan.
- d) May not ask an aircraft to change its call sign after accepting the flight plan.

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15. A Special Air Report comprises a number of sections. In section I the pilot fills in:

- a) Weather noted
- c) A position report, including aircraft identification, height, position and time

16. A high degree of cockpit automation may alter the traditional tasks of the pilots in a way, that

- a) The attention of the cockpit crew will become reduced with the consequence of 'being out of the loop'
- b) The crew can pay more attention to solve the problem in an abnormal situation without monitoring the automatic systems
- c) Crew Coordination can be neglected on long haul flights without compromising safety
- d) It is guaranteed that the crew maintains always situational awareness

17. A pitot tube covered by ice which blocks the ram air inlet will affect the following instrument (s):

- a) Vertical speed indicator only.
- b) Altimeter only.
- c) Airspeed indicator, altimeter and vertical speed indicator.
- d) Airspeed indicator only.

18. 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?

- 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

19. The take-off mass of an aeroplane is restricted by the climb limit. What would be the effect on this limit of an increase in the headwind component?

- a) The climb limited take-off mass would increase
- b) The effect would vary depending upon the height of any obstacle within the net take-off flight path
- c) The climb limited take-off mass would decrease
- d) None

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20. How many hours in advance of EOBT should a ATC flight plan be filed in the case of flights into areas subject to air traffic flow management (ATFM)?

- a) 1:00 hour.
- b) 3:00 hours.
- c) 2 hours.
- d) 0:30 hours.

21. The separation method whereby the vertical and horizontal separation may be reduced till a maximum of half the standard criteria is called:

- a) Reduced separation
- b) Combined separation
- c) Essential separation
- d) Composite separation

22. To indicate a temperature, a thermocouple requires:

- a) Direct current
- b) Battery power
- c) Alternating current
- d) No power supply

23. What is the correct way of spelling out HB-JYC in a radio message?

- a) Hotel Bravo Juliett India Kilo
- b) Hotel Bravo Juliett Yankee Charlie
- c) Hotel Bravo India Victor Charlie
- d) Hotel Bravo India Yankee Charlie

24. A three-phase electrical tachometer consists of:

- a) A three-phase generator, a synchronous motor and a magnetic tachometer.
- b) Three speed probes and a phonic wheel.
- c) A speed probe and a phonic wheel.
- d) Three associated dynamos.

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25. What will happen in ground effect?

- a) The wing tip vortices increase in strength
- b) The wing downwash on the tail surfaces increases
- c) The thrust required will increase significantly
- d) The induced angle of attack and induced drag decrease

26. What does the abbreviation 'IMC' mean?

- a) In most cases
- b) International meteorological channel
- c) Instrument meteorological conditions
- d) In meteorological conditions

27. The EAT has to be transmitted to the pilot as soon as possible, in case the expected delay is:

- a) 15 minutes or more
- b) 5 minutes or more.
- c) 20 minutes
- d) 10 minutes

28. For the transport of potentially disruptive passengers some supplementary safeguards are to be observed such as:

- a) Boarding after to all other passengers
- b) The boarding will be at the pilot in command discretion
- c) Boarding prior to all passengers
- d) The boarding has to be done at the state discretion

29. An aeroplane has a stall speed of 100 KT at a load factor $n = 1$. In a turn with a load factor of $n = 2$, the stall speed is:

- a) 141 KT
- b) 200 KT
- c) 70 KT
- d) 282 KT

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30. In the directional gyro the detection system of the local vertical feeds:

- a) A torque motor on the sensitive axis.
- b) A nozzle integral with the outer gimbal ring.
- c) Two torque motors arranged horizontally.
- d) A levelling erection torque motor.

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

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

32. How can the process of learning be facilitated?

- a) By increasing the psychological pressure on the student
- b) By punishing the learner for unsuccessful trials
- c) By reinforcing successful efforts
- d) By reinforcing errors

33. What is the frequency separation between consecutive frequencies in the VHF band:

- a) 25 KHz
- b) 75 KHz
- c) 8.33 KHz
- d) 50 KHz

34. Immediately following the MAYDAY prefix, an aircraft in distress should transmit:

- a) The aircraft call sign twice.
- b) Its last known position.
- c) The call sign of the station addressed, when it is known and the circumstances permit.
- d) The nature of the emergency.

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35. The (operator) proficiency check of a pilot took place the 15th of April. The validity of the previous proficiency check was the 30th of June. The period of the new proficiency check can be and can't exceed:

- a) 31st of December the same year
- b) 30th of April the following year
- c) 30th of October the same year
- d) 15th of October the same year

36. During a conventional approach, the Minimum Descent Height (MDH) is referred to the runway threshold altitude and not to the aerodrome altitude if the runway threshold is at more than:

- a) 2 m (7 ft) below the aerodrome altitude
- b) 4 m (14 ft) below the aerodrome altitude
- c) 2 m (7 ft) above the aerodrome altitude
- d) 4 m (14 ft) above the aerodrome altitude

37. The time is now 1123. Radar Control requests your estimate for next reporting point, which is AAL VOR/DME. You look at your operational flight plan and estimate 12 minutes (36 NM) to go to the reporting point. Your transmission is:

- a) Estimate AAL at three-five
- b) Estimate AAL VOR/DME in one-two minutes
- c) Have one-two minutes to go to AAL
- d) Estimate AAL at eleven-thirty-five

38. For the purpose of wake turbulence separation, what is the ICAO minimum radar separation distance if a heavy aeroplane is following directly behind another heavy aeroplane on the approach to the same runway ?

- a) 9.3 km (5 NM)
- b) 11.1 km (6 NM)
- c) 7.4 km (4 NM)
- d) 3.7 km (2 NM)

39. An air temperature of -55°C at the 200 hPa level over central Europe in summer is

- a) High
- b) Low
- c) Within +/-5°C of ISA
- d) Very high

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40. An aircraft may be weighed

- 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.

41. The ICAO definition of ETA is the:

- a) Actual time of arrival at a point or fix
- b) Estimated time en-route
- c) Estimated time of arrival at destination
- d) Estimated time of arrival at an en-route point or fix

42. At night an aircraft observes a luminous signal requesting help. To indicate that he has received these ground signals, the pilot must:

- a) Make at least one complete turn over the group of people in difficulty.
- b) Switch his landing lights on and off twice or, if he is not so equipped, his navigation lights twice.
- c) Fly over the group of people in difficulty as low as possible.
- d) Transmit, by luminous Morse signal, a series of the letter 'R' using his navigational lights.

43. In ISA conditions, approximately what is the maximum theoretical range at which an aircraft at FL210 may expect to receive signals from a VOR facility sited 340 feet above mean sea level?

- a) 245 NM
- b) 204 NM
- c) 183 NM
- d) 352

44. If the continuity equation is applicable, what will happen to the air density (ρ) if the cross sectional area of a tube changes? (low speed, subsonic and incompressible flow)

- a) ρ_1
- b) $\rho_1 > \rho_2$
- c) $\rho_1 = \rho_2$
- d) The density depends on the change of the tube area

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45. Fastair 345 has been instructed 'Standby 118.9 for TOWER'. What does this instruction mean?

- a) Fastair 345 shall establish radio contact with TOWER on frequency 118.9
- b) Fastair 345 shall change to frequency 118.9 on which information is being broadcast
- c) Fastair 345 shall squawk standby and then establish radio contact with TOWER on frequency 118.9
- d) Fastair shall change to frequency 118.9 and listen out, but the TOWER will initiate further communications

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

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

47. An aircraft operating within MNPS 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 a track laterally separated by 30 NM from its assigned route and climb 1 000 ft or descend 500 ft, if:

- a) Above FL 410
- b) At FL410
- 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 a track laterally separated by 30 NM from its assigned route and climb 1 000 ft or descend 500 ft, if: above FL 410 at FL410 at FL 430
- d) Below FL 410

48. With an true airspeed of 194 KT and a vertical speed of 1000 fpm, the climb gradient is about:

- a) 5°
- b) 3%
- c) 8%
- d) 3°

49. Which point shown in the figure corresponds with CL for minimum horizontal flight speed?

- a) Point a
- b) Point b
- c) Point d
- d) Point c

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50. An aircraft at FL350 is required to descend to cross a DME facility at FL80. Maximum rate of descent is 1800 FT/MIN and mean GS for descent is 276 kt. The minimum range from the DME at which descent should start is:

- a) 49 NM
- b) 79 NM
- c) 59 NM
- d) 69 NM

51. The most effective way to dissipate cloud is by

- a) Convection
- b) Subsidence
- c) A decrease in pressure
- d) A decrease in temperature

52. The fuel temperature, at which, under standard conditions, the vapour ignites in contact with a flame and extinguishes immediately, is the:

- a) Combustion Point
- b) Flash point
- c) Self ignition point
- d) Fire Point

53. The nominal scale of a Lambert conformal conic chart is the:

- a) Mean scale between pole and equator
- b) Mean scale between the parallels of the secant cone
- c) Scale at the standard parallels
- d) Scale at the equator

54. The fuel burn of an aircraft turbine engine is 220 l/h with a fuel density of 0,80. If the density is 0,75, the fuel burn will be:

- a) 235 l/h
- b) 176 l/h
- c) 220 l/h
- d) 206 l/h

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55. What does 'Friction coefficient 20' in a runway report mean:

- a) Braking action poor
- b) Braking action unreliable
- c) Braking action good
- d) Braking action medium

56. What is the consequence of a microphone button stuck on transmit (switched 'on')?

- a) None
- b) Other stations will have to use the 'words twice' technique
- c) The frequency can not be used by others
- d) Readability will improve for all stations

57. In a land- and sea-breeze circulation the land-breeze blows:

- a) During the day and is stronger than the sea-breeze.
- b) During the night and is weaker than the sea-breeze.
- c) During the night and is stronger than the sea-breeze.
- d) During the day and is weaker than the sea-breeze.

58. The maximum indicated air speed of a piston engine aeroplane without turbo charger, in level flight, is reached:

- a) At the optimum cruise altitude
- b) At the lowest possible altitude
- c) At the practical ceiling
- d) At the service ceiling

59. Concerning the capacity of the human long-term memory

- a) It is structurally limited in terms of storage capacity, but unlimited in terms of storage time
- b) It is structurally limited in terms of storage time but not in terms of capacity
- c) Its storage capacity is unlimited
- d) Its mode of storing information is passive, making memory searches effective

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60. A public transport aeroplane is intended to be operated at FL 370. The cabin is fitted with 180 passenger seats. The minimum number of cabin oxygen masks (dispensing units) required for this aeroplane is:

- a) 198 (110% of the seating capacity).
- b) 210 (one additional mask per seat row).
- c) 240 (one additional mask per seat block).
- d) 270 (150% of the seating capacity).

61. The kind of compressor normally used as a supercharger is:

- a) A radial compressor.
- b) A piston compressor.
- c) An axial compressor.
- d) A Hybrid Compressor.

62. Which word or phrase shall be used if you want to say: 'Wait and I will call you'?

- a) Roger.
- b) Go ahead.
- c) Wilco.
- d) Standby.

63. An aircraft is flying at FL 80. The local QNH is 1000 hPa. After the second altimeter has been adjusted to the local QNH, the reading will be approximately:

- a) 8350'
- b) 8600'
- c) 8000'
- d) 7650'

64. An Omni-bearing selector (OBS) shows full deflection to the left when within range of a serviceable VOR. What angular deviation are you from the selected radial?

- a) Less than 10°
- b) 10° or more
- c) 2.5 or more
- d) 1.5° or more

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65. The Dry Operating Mass includes:

- a) Crew and crew baggage, catering, removable passenger service equipment, potable water and lavatory chemicals.
- b) Passengers baggage and cargo.
- c) Fuel and passengers baggage and cargo.
- d) Unusable fuel and reserve fuel.

66. The induced drag:

- a) Increases as the aspect ratio increases
- b) Has no relation to the lift coefficient
- c) Increases as the lift coefficient increases
- d) Increases as the magnitude of the tip vortices decreases

67. You may act as a flight instructor to carry out flight instruction for the issue of a PPL

- a) With a PPL plus CPL theory
- b) With a PPL plus flight instructor rating
- c) With a valid licence plus flight instructor rating
- d) With a CPL

68. Flying at pressure altitude of 10 000 ft, a pilot, being a moderate to heavy smoker, has an oxygen content in the blood equal to an altitude

- a) Above 10 000 FT
- b) Of 15000 FT when breathing 100% oxygen
- c) Lower than 10 000 FT
- d) Of 10 000 FT

69. Vitamin A and possibly vitamins B and C are chemical factors and essential to good night vision:1. Vitamin deficiencies may decrease night vision performance2. An excess intake of vitamin A will improve night vision performance significantly3. Pilots should be carefully concerned to take a balanced diet containing sufficient vitamin A4. Vitamin deficiencies may decrease visual acuity in photopic vision but not in scotopic vision

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

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70. Success in achieving the objectives of a message requires:

- a) The matching of verbal, non-verbal and contextual meanings
- b) Different codes between form and meaning
- c) A form of the message, which should not match the expectation of the receiver
- d) Differences in contexts for the sender and the receiver

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Schema Risposte

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

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