

Simulazione di Esame

Human Performance and Limitations - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. When planning a flight at FL 110, which upper wind and temperature chart would be nearest your flight level ?

- a) 300 hPa
- b) 850 hPa
- c) 500 hPa
- d) 700 hPa

02. Which one of the bodies in motion (all bodies have the same cross section area) will have lowest drag?

- a) Body a
- b) Body c
- c) Body d
- d) Body b

03. 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.

04. What is (are) the damping element(s) in a landing gear shock absorber used on larger aircraft?

- a) Oxygen.
- b) Nitrogen.
- c) Springs.
- d) Nitrogen and a viscous liquid.

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05. In a compensated capacitance type quantity indicating system, the contents gauge of a half- full fuel tank indicates a fuel mass of 8.000 kg. If a temperature rise increased the volume of fuel by 5%, the indicated fuel weight would:

- a) Decrease By 5%.
- b) Remain the same.
- c) Increase by 10%.
- d) Increase By 5%.

06. The planned departure time from the parking area is 1815 UTC The estimated take-off time is 1825 UTC The flight plan must be filed with ATC at the latest at:

- a) 1725 UTC
- b) 1745 UTC
- c) 1715 UTC
- d) 1755 UTC

07. When turning right from 330°(C) to 040°(C) in the northern hemisphere, the reading of a direct reading magnetic compass will:

- a) Under-indicate the turn and liquid swirl will increase the effect
- b) Over-indicate the turn and liquid swirl will increase the effect
- c) Under-indicate the turn and liquid swirl will decrease the effect
- d) Over-indicate the turn and liquid swirl will decrease the effect

08. 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

09. What is the classification of the air mass affecting position 'Q' at 0600 UTC?

- a) Polar maritime
- b) Tropical maritime
- c) Tropical continental
- d) Polar continental

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10. Planning an IFR-flight from Paris to London (Heathrow).Name the identifier and frequency of the initial approach fix (IAF) of the BIG 2A arrival route.

- a) EPM 316 kHz
- b) BIG 115.1 MHz
- c) BIG 115.1 kHz
- d) OCK 115.3 MHz[see Annex]

11. 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

12. The time required for complete adaptation is:

- a) For day and night: 30 min
- b) For high levels of illumination 10 minutes and for low levels of illumination 30 minutes
- c) For night 10 sec and for day 30 min
- d) For high levels of illumination 10 sec and for full dark adaptation 30 min

13. Air traffic control messages (clearances, instructions, etc.) belong to the category of:

- a) Flight regularity messages.
- b) Class B messages.
- c) Service messages.
- d) Flight safety messages.

14. Runway threshold lights shall be:

- a) Fixed unidirectional lights showing white in the direction of approach to the runway.
- b) Fixed unidirectional lights showing green in the direction of approach to the runway.
- c) Fixed lights showing green or white colours.
- d) Fixed lights green colours.

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15. What is the radiotelephony call sign for the aeronautical station indicating approach control radar arrivals?

- a) ...ARRIVAL
- b) ...DIRECTOR
- c) ...RADAR
- d) ...APPROACH

16. 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

17. Which frequency band is used by VOR transmissions?

- a) SHF
- b) UHF
- c) VHF
- d) PRN occurs in the receiver. It is caused by the signal from one satellite being received from different directions (multipath effect)

18. The regime of flight from the critical Mach number up to approximately $M = 1.3$ is called the:

- a) Supersonic range
- b) Transonic range
- c) Subsonic range
- d) Hypersonic range

19. When increasing true airspeed with a constant engine RPM, the angle of attack of a fixed pitch propeller:

- a) Stays Constant.
- b) Increases.
- c) Reduces.
- d) Stays Constant Because It Only Varies With Engine Rpm.

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20. Other factors remaining constant, how does increasing altitude affect V_x and V_y in terms of TAS?

- a) Both will remain the same
- b) Both will decrease
- c) Both will increase
- d) V_x will decrease and V_y will increase

21. Which of the following are to be taken into account for the runway in use for take-off?

- a) Airport elevation, runway slope, standard temperature, pressure altitude and wind components
- b) Airport elevation, runway slope, standard temperature, standard pressure and wind components
- c) Airport elevation, runway slope, outside air temperature, standard pressure and wind components
- d) Airport elevation, runway slope, outside air temperature, pressure altitude and wind components

22. Where does polar continental air originate?

- a) Areas of arctic water.
- b) The region of the Baltic sea.
- c) The region of Greenland.
- d) Siberian landmass.

23. What phrase shall be used when asking for the readability of a transmission?

- a) Read back
- b) Report readability
- c) How do you read?
- d) Read you loud and clear

24. Immediately after starting engine(s) with no other electrical services switched on, an ammeter showing a high charge rate to the battery:

- a) Indicates A Generator Failure, Thus Requiring The Engine To Be Shut Down Immediately.
- b) Indicates a battery failure since there should be no immediate charge.
- c) Indicates a faulty reverse current relay.
- d) Would be normal and is only cause for concern if the high charge rate persists.

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25. When is the RVR reported at most airports?

- a) When the RVR decreases below 2000 m.
- b) When the meteorological visibility decreases below 800 m.
- c) When the meteorological visibility decreases below 1500 m.
- d) When the RVR decreases below 800 m.

26. Altimeter setting procedures - transition altitude / level in the vicinity of an aerodrome of intended landing or used for take-off, the vertical position of aircraft shall be expressed in term of:

- a) Flight level at or below the transition level
- b) Altitude above mean sea level at or above the transition altitude
- c) Flight level at or below the transition altitude
- d) Altitude above mean sea level at or below the transition altitude

27. Refer to the Student Pilot Route Manual - VFR Chart ED-4. Flying from ERBACH airport (48°21'N, 009°55'E) to POLTRINGEN airport (48°33'N, 008°57'E). Find magnetic course and the distance.

- a) Magnetic course 285°, distance 41 NM
- b) Magnetic course 289°, distance 76 KM
- c) Magnetic course 287°, distance 60 NM
- d) Magnetic course 108°, distance 41 NM

28. During deceleration following a landing in a northerly direction, a magnetic compass made for the southern hemisphere indicates:

- a) An apparent turn to the west.
- b) An apparent turn to the east.
- c) No apparent turn only on southern latitudes.
- d) No apparent turn.

29. When an aircraft has turned 360 degrees with a constant attitude and bank, the pilot observes the following on a classic artificial horizon:

- a) Attitude and bank correct
- b) Too much nose-up and bank too high
- c) Too much nose-up and bank correct
- d) Too much nose-up and bank too low

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30. On board present aircraft, the batteries used are mainly Cadmium-Nickel. Their advantages are:1. low risk of thermal runaway2. high internal resistance, hence higher power3. good charging and discharging capability at high rating4. wider permissible temperature range5. good storage capability6. sturdiness owing to its metal casing7. the electrolyte density remains unchanged during charging. The combination of correct statement is:

- a) 2, 3, 4, 5, 6
- b) 1, 2, 5, 6, 7
- c) 3, 4, 6, 7
- d) 3, 4, 5, 6

31. What does the abbreviation 'MLS' mean:

- a) Mean sea level
- b) Minimum safe level
- c) Minimum sector level
- d) Microwave landing system

32. Accident, Incident notification and reporting.After landing, while taxiing towards the apron the landing gear sinks into a hole. Nobody gets injured, but the aircraft sustains a structural failure. This obliges the crew to delay the departure.

- a) This is an irregularity in the operation. The crew must inform the operator of the aerodrome and establish a report.
- b) Since there is no person injured and the flight is terminated, a damage report has to be made out with the services of the aerodrome in charge of the runway and taxiways for the insurance company.
- c) This is an incident and the pilot-in-command must report it to the airport authority within the next 48 h.
- d) This is an accident and the crew must follow the procedure relevant to this case.

33. Having made an important decision, a Commander of an aircraft should:

- a) Explain the reasons for the decision only if time permits in the air
- b) As the leader of the crew, never need explain the reasons behind the decision
- c) Always try to make time to explain the reasons for the decision even if it is after landing
- d) Explain the reasons for the decision only if asked

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34. An ATS airspace where IFR and VFR flights are permitted and all flights are subject to air traffic control service. IFR flights are separated from other IFR flights and receive traffic information in respect of VFR flights. VFR flights receive traffic information in respect of all other flights, is classified as:

- a) Airspace B
- b) Airspace D
- c) Airspace A
- d) Airspace E

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

- 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

36. A boundary layer fence on a swept wing will:

- a) Improve the high speed characteristics
- b) Improve the low speed characteristics
- c) Improve the lift coefficient of the trailing edge flap
- d) Increase the critical Mach Number

37. Which one of the following lists information given by a basic VOR / DME-based Area Navigation System?

- a) Crosstrack distance
- b) alongtrack distance
- c) angular course deviation
- d) 2500 MHz

38. The speed for maximum lift/drag ratio will result in:

- a) The maximum endurance for a propeller driven aeroplane
- b) The maximum range for a jet aeroplane
- c) The maximum angle of climb for a propeller driven aeroplane
- d) The maximum range for a propeller driven aeroplane

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39. The empty mass of an aircraft is recorded in

- a) The loading manifest. It differs from Dry Operating Mass by the value of the 'useful load'.
- b) The weighing schedule. If changes occur, due to modifications, the aircraft must be re-weighed always.
- c) The loading manifest. It differs from the zero fuel mass by the value of the 'traffic load'.
- d) The weighing schedule and is amended to take account of changes due to modifications of the aircraft.

40. In a primary radar using pulse technique, the ability to discriminate between targets in azimuth is a factor of:

- a) Aerial rotation rate
- b) Pulse Recurrence Rate (PRR)
- c) Beam width
- d) Decrease in the aircraft's rate of descent of 50 FT/MIN

41. Latitude may be defined as:

- a) The angular distance measured along a meridian from the equator to a parallel of the latitude, measured in degrees, minutes, and seconds and named North to South.
- b) The angle between the plane of the equator and the plane of the parallel of latitude.
- c) The displacement of a place from equator.
- d) The distance from equator to a place on the surface of the Earth.

42. The colour identification of the contents of droppable containers and packages containing survival equipment should take the form of coloured streamers according to the following code:

- a) Red for food and water.
- b) Yellow for blankets and protective clothing.
- c) Black for food and water.
- d) Blue for medical supplies and first aid equipment.

43. Which of the following statements with regard to the actual acceleration height at the beginning of the 3rd climb segment is correct?

- a) A lower height than 400 ft is allowed in special circumstances e.g. noise abatement
- b) The minimum value according to regulations is 1000'
- c) The minimum value according to regulations is 400'
- d) There is no legal minimum value, because this will be determined from case to case during the calculation of the net flight path

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44. Which word shall be used to ask a station whether you have correctly received a message, clearance, instruction, etc?

- a) Correct
- b) Acknowledge
- c) Confirm
- d) Verify

45. A repetitive flight plan (RPL) is filed for a scheduled flight: Paris-Orly to Angouleme, Paris Orly as alternate. Following heavy snow falls, Angouleme airport will be closed at the expected time of arrival. The airline decides before departure to plan a re-routing of that flight to Limoges.

- a) The RPL must be cancelled for that day and a specific flight plan has to be filed.
- b) The pilot-in-command must advise ATC of his intention to divert to Limoges at least 15 minutes before the planned time of arrival.
- c) It is not possible to plan another destination and the flight has to be simply cancelled that day (scheduled flight and not chartered).
- d) The airline's 'Operations' Department has to transmit a change in the RPL at the ATC office, at least half an hour before the planned time of departure.

46. Continuous loop fire detector systems operate on the principle that an increase in temperature produces:

- a) An Increase In Resistance
- b) A decrease in resistance
- c) A decrease in pressure
- d) A Decrease In The Reference Current

47. The wing ice protection system currently used for most large turboprop transport aeroplanes is a(n):

- a) Electrical De-icing System.
- b) Hot air system.
- c) Pneumatic system with inflatable boots.
- d) Liquid De-icing System.

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48. A radar facility transmitting at a Pulse Recurrence Frequency (PRF) of 1200 pulses/second will have a maximum unambiguous range of approximately:

- a) 135 NM
- b) 69 NM
- c) 27 NM
- d) Envelope matching

49. In which of the following distances can the length of a stopway be included?

- a) In the one-engine failure case, take-off distance
- b) In the accelerate stop distance available
- c) In the take-off run available
- d) In the all-engine take-off distance

50. The distress message shall contain as many as possible of the following elements/details:

- a) Aircraft call sign, route of flight, destination airport
- b) Aircraft call sign, aerodrome of departure, position and level
- c) Aircraft call sign, nature of distress, pilot's intention, present position, level and heading
- d) Aircraft call sign, present position, assistance required

51. When the centre of gravity is at the forward limit, an aeroplane will be:

- a) Extremely stable and require small elevator control to change pitch.
- b) Extremely stable and will require excessive elevator control to change pitch.
- c) Extremely unstable and require small elevator control to change pitch.
- d) Extremely unstable and require excessive elevator control to change pitch.

52. In order to align an inertial reference system (IRS), it is required to insert the local geographical coordinates. This enables the IRS to:

- a) Find True North.
- b) Compare the longitude it finds with that entered by the operator.
- c) Initialize the FMS flight plan.
- d) Compare the latitude it finds with that entered by the operator.

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53. In the northern hemisphere, during the take-off run in an easterly direction, a direct reading magnetic compass indicates:

- a) No apparent turn.
- b) An apparent turn to approximately the heading 100° .
- c) An apparent turn to the south.
- d) An apparent turn to the north.

54. Given: TAS = 485 kt, HDG (T) = 168° , W/V = 130/75kt. Calculate the Track ($^\circ$ T) and GS?

- a) Varies slowly over time
- b) Depends on the true heading
- c) Depends on the magnetic heading
- d) Depends on the type of compass installed

55. Which definition of propeller parameters is correct?

- a) Blade angle is the angle between the blade chord line and the propeller axis
- b) Angle of attack is the angle between the blade chord line and the propeller vertical plane
- c) Geometric pitch is the theoretical distance a propeller blade element would travel in a forward direction during one revolution
- d) Critical tip velocity is the propeller speed at which flow separation first occurs at some part of the blade

56. An aircraft is descending to land under IFR. If the local QNH is 1009 hPa, what will happen to the altitude reading when the altimeter is reset at the transition level?

- a) It will decrease
- b) It will not be affected
- c) It will remain the same
- d) It will increase

57. Without visual reference, what illusion could the pilot get, when he is stopping the rotation to recover from a spin? He will get the illusion of

- a) Straight and level flight
- b) Spinning into the same direction
- c) Climbing and turning into the original direction of the spin
- d) Spinning into the opposite direction

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58. The frontal area of a body, placed in a certain airstream is increased by a factor 3. The shape will not alter. The aerodynamic drag will increase with a factor:

- a) 6
- b) 9
- c) 1.5
- d) 3

59. The 'climb gradient' is defined as the ratio of:

- a) The increase of altitude to horizontal air distance expressed as a percentage
- b) Rate of climb to true airspeed
- c) True airspeed to rate of climb
- d) The increase of altitude to distance over ground expressed as a percentage

60. Given: Magnetic track = 210°, Magnetic HDG = 215°, VAR = 15°E, TAS = 360 kt, Aircraft flies 64 NM in 12 MIN. Calculate the true W/V?

- a) 195°/50 kt
- b) 265°/50 kt
- c) 300°/30 kt
- d) 235°/50 kt

61. In the 'worst case' scenario of recovery from the effects of a microburst, having increased to full go-around power, in co-ordinating power and pitch it may be necessary to:

- a) Increase the pitch angle until the stick shaker is felt and hold at slightly below this angle
- b) Slowly increase speed whilst maintaining a positive rate of climb
- c) Reduce speed to V_2 and hold
- d) Climb away at $V_{at} + 20$ kt

62. The maximum intensity floor loading for an aeroplane is given in the Flight Manual as 650 kg per square metre. What is the maximum mass of a package which can be safely supported on a pallet with dimensions of 80 cm by 80 cm?

- a) 416.0 kg
- b) 101.6 kg
- c) 41.6 kg
- d) 1015.6 kg

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63. The centre of gravity of an aircraft is that point through which the total mass of the aircraft is said to act. The weight acts in a direction

- a) Always parallel to the aircraft's vertical axis.
- b) Parallel to the gravity vector.
- c) Governed by the distribution of the mass within the aircraft.
- d) At right angles to the flight path.

64. Examining the pictures, on which one of the tracks (dashed lines) is this cross-section to be expected?

- a) Track B-D
- b) Track A-E
- c) Track A-D
- d) Track B-C

65. Given: Distance 'A' to 'B' 3623 NM Groundspeed 'out' 370 kt Groundspeed 'back' 300 kt The time from 'A' to the Point of Equal Time (PET) between 'A' and 'B' is:

- a) 263 MIN
- b) 238 MIN
- c) 323 MIN
- d) 288 MIN

66. 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.

67. What is the time required to travel along the parallel of latitude 60° N between meridians 010° E and 030° W at a groundspeed of 480 KT?

- a) 1 h 15 min
- b) 1 h 45 min
- c) 2 h 30 min
- d) 5 h 00 min

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68. Radio silence can be imposed by an aeronautical station in case of:

- a) Urgency communication
- b) Distress traffic
- c) Technical difficulties
- d) Overload of the frequency

69. An aircraft flies a VOR / DME direct approach for which the operational minima are: MDH = 360', horizontal visibility = 1500 m: Visibility given by ATC and received by the crew is 2500 m: The pilot may start the final approach ...

- a) If the ceiling transmitted by ATC and received by the crew is higher than 240'
- b) If the ceiling transmitted by ATC and received by the crew is higher than 360'
- c) If the ceiling transmitted by ATC and received by the crew is higher than 240' during the day and 360' at night
- d) Regardless the ceiling given by ATC

70. What will be the effect on an aeroplane's performance if aerodrome pressure altitude is decreased?

- a) It will decrease the take-off distance required
- b) It will increase the accelerate stop distance
- c) It will increase the take-off ground run
- d) It will increase the take-off distance required

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Schema Risposte

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

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