

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. The aeroplane has a mass of 61 000 kg in the cruise. The range of safe CG positions, as determined from the appropriate graph in the loading manual, is:

- a) Forward limit 8.0% aft limit 27.2% MA
- b) Forward limit 8.3% aft limit 26.3% MAC
- c) Forward limit 8.3% aft limit 26.3% MAC forward limit 7.7% aft limit 25.2% MAC
- d) Forward limit 7.6% aft limit 26.9% MA[see Annex]

02. The "constant speed propeller" has:

- a) Its Best Efficiency During Climb.
- b) In general a worse efficiency than the fixed propeller.
- c) Only above and below the design point a better efficiency than the fixed propeller with the same design speed.
- d) Only At The Design Speed A Better Efficiency Than The Fixed Propeller.

03. The following actions are appropriate when faced with symptoms of decompression sickness:1. climb to higher level2. descent to the higher of 10000 ft or MSA and land as soon as possible3. breathe 100 % oxygen4. obtain medical advice about recompression after landing

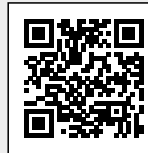
- a) 2, 3 and 4 are correct
- b) 1 and 3 are correct
- c) 1 and 4 are correct
- d) 1, 2 and 3 are correct

04. The chemical oxygen generator is a system 1. which is inexpensive 2. requiring no external input 3. which is lightweight 4. requiring no maintenance 5. with adjustable flow rate 6. which is unsaf The combination regrouping all the correct statements is:

- a) 2, 3, 2006
- b) 1, 3, 4
- c) 2, 4, 2005
- d) 1, 4, 2006

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05. A nautical mile is:

- a) 1609 metres
- b) 1852 metres
- c) 1500 metres
- d) 1012 metres

06. What does the word 'wilco' mean?

- a) I read you five
- b) I have received all of your last transmission
- c) As communication is difficult, I will call you later
- d) I understand your message and will comply with it

07. Which aeroplane behaviour will be corrected by a yaw damper ?

- a) Tuck under.
- b) Dutch roll.
- c) Buffeting.
- d) Spiral dive.

08. 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

09. With regard to decompression sickness associated with flight, we know that:

- a) Age, obesity and scuba diving are risk factors
- b) Physical activity after decompression reduces the risks of decompression sickness symptoms
- c) Gender is the prime risk factor, with two out of every three women being sensitive to it
- d) Scuba diving does not pose any problem for a subsequent flight

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10. When compared with the volumetric fuel flowmeter, the mass fuel flowmeter takes into account the fuel:

- a) Temperature.
- b) Pressure.
- c) Density.
- d) Dielectrical constant.

11. When an aircraft station is unable to establish communication due to receiver failure, the following procedure should be undertaken:

- a) Transmit at regular times or positions, the phrase 'Transmitting blind due to receiver failure'.
- b) Change to frequency 121.5 MHZ and squawk 7700.
- c) Transmit reports at scheduled times or positions, preceded by the phrase 'Transmitting blind due to receiver failure'.
- d) Land at the nearest uncontrolled airfield.

12. Disorientation is more likely to occur when the pilot is:
1. flying in IMC
2. frequently changing between inside and outside references
3. flying from IMC into VMC
4. approaching over still water at night

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

13. Given: Distance from departure to destination 150 NM True track 142W/V 200/15 TAS 132 kt What is the distance of the PET from the departure point?

- a) 79 NM
- b) 134 NM
- c) 75 NM
- d) 71 NM

14. Among the following, select the ATC unit in charge of controlling the traffic:

- a) AFIS
- b) ATIS
- c) AIS
- d) Departure

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15. In which situation will speed indications on an airborne Distance Measuring Equipment (DME) most closely represent the groundspeed of an aircraft flying at FL400?

- a) When overhead the station, with no change of heading at transit
- b) When passing abeam the station and within 5 NM of it
- c) When tracking directly away from the station at a range of 10 NM
- d) An ADF sited on the flight route

16. What shall the pilot's read back be for 'Climb to FL 280':

- a) Climbing to flight level two eighty
- b) Climbing to flight level two eight zero
- c) Climbing to two eighty
- d) Climbing two eight zero

17. A SANDWICH structural part is:

- a) A So-called Integral Construction.
- b) Composed of two thin sheets and a light core material.
- c) Well suited for absorbing point concentrated loads.
- d) Composed Of Resin And Fibres.

18. Approach Procedures - Missed Approach - PhasesA complete missed approach procedure consists of the following phases?

- a) Arrival, intermediate and final.
- b) Arrival, initial, intermediate and final.
- c) Initial and final.
- d) Initial, intermediate and final.

19. Longitudinal separation minima based on distance using DME for aircraft at the same cruising level and track, provided that each aircraft utilises 'on Track' DME stations and separation is checked by obtaining simultaneous DME readings, is:

- a) 25 NM
- b) 10 NM
- c) 40 NM
- d) 20 NM

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20. An aeroplane is performance limited to a landing mass of 54230 kg. The Dry Operating Mass is 35000 kg and the zero fuel mass is 52080 kg. If the take-off mass is 64280 kg the useful load is

- a) 29280 kg.
- b) 10080 kg.
- c) 12200 kg.
- d) 17080 kg

21. Some of the FMS have a navigation mode called Dead Reckoning mode (DR), computing airspeed, heading, wind data ground speed and time. This mode is:

- a) A navigation mode used to monitor the FMS position.
- b) An operating mode used to intercept radials To or From a flight plan waypoint.
- c) The normal navigation mode for FMS which do not use Inertial navigation Systems INS to compute the aircraft position.
- d) A back up navigation mode to compute a FMS position when the other navigation sensors are no longer operating.

22. With all engines out, a pilot wants to fly for maximum time. Therefore he has to fly the speed corresponding to:

- a) The minimum power required
- b) The maximum lift
- c) The minimum angle of descent
- d) The critical Mach number

23. On a modern aircraft, the flight director modes are displayed on the:

- a) Upper strip of the ND (Navigation Display).
- b) Upper strip of the ECAM (Electronic Centralized A/C Management).
- c) Upper strip of the PFD (Primary Flight Display).
- d) Control panel of the flight director only.

24. Given: True course A to B = 250° Distance A to B = 315 NM TAS = 450 kt. W/V = 200°/60kt. ETD A = 0650 UTC. What is the ETA at B?

- a) 0730 UTC
- b) 0736 UTC
- c) What is the ETA at B? 0730 UTC 0736 UTC 0716 UTC
- d) 0810 UTC

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25. Must a 'general call' be acknowledged'?

- a) Yes, from all stations in the sequence they have been addressed
- b) Yes, but only from the station first called
- c) Yes, from all stations in a random sequence
- d) No

26. Which of the figures depicts an Electronic Flight Instrument System (EFIS) display in Expanded (EXP) VOR/ILS mode with an VOR frequency selected?

- a) Figure 4
- b) Figure 1
- c) Figure 6
- d) Figure 5

27. A sample of moist but unsaturated air may become saturated by

- a) Expanding it adiabatically
- b) Compressing it adiabatically
- c) Lowering the pressure, keeping temperature constant
- d) Raising the temperature

28. 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

29. What mass has to be entered in the loading chart for aviation fuel F 34 if 170 l may be refuelled? (Fuel density = 0.78 kg/l)

- a) 133 kg
- b) 218 kg
- c) 170 kg
- d) 133 daN

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30. A Lambert conformal conic chart has a constant of the cone of 0.75. The initial course of a straight line track drawn on this chart from A (40°N 050°W) to B is 043°(T) at A

- a) Course at B is 055°(T). What is the longitude of B?
- b) 36°W
- c) 34°W
- d) 41°W

31. A "close traffic advisory" is displayed on the display device of the TCAS II (Traffic Collision Avoidance System) by:

- a) A blue or white empty lozenge.
- b) A yellow full circle.
- c) A red full square.
- d) A blue or white full lozenge.

32. When applying carburettor heating:

- a) The mixture becomes richer.
- b) No change occurs in the mixture ratio.
- c) The mixture becomes leaner.
- d) A Decrease In Rpm Results From The Lean Mixture.

33. A message preceded by the phrase 'Transmitting blind due receiver failure' shall be transmitted:

- a) On the regional guard frequency
- b) On the international emergency frequency
- c) On the frequency presently in use
- d) On all available aeronautical stations

34. With zero wind, the angle of attack for maximum range for an aeroplane with turbojet engines is:

- a) Lower than the angle of attack corresponding to maximum endurance
- b) Equal to the angle of attack corresponding to maximum lift to drag ratio
- c) Equal to the angle of attack corresponding to zero induced drag
- d) Equal to the angle of attack corresponding to maximum endurance

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35. On an aeroplane without central fuel tank, the maximum Zero Fuel Mass is related to:

- a) The bending moment at the wing root.
- b) Variable equipment for the flight.
- c) Wing loaded trip fuel.
- d) Maximum Structural Take-Off Mass.

36. At the flight preparation stage, the following parameters in particular are available for determining the mass of the aircraft: 1- Dry operating mass 2- Operating mass Which statement is correct:

- a) The operating mass is the mass of the aircraft without take-off fuel.
- b) The dry operating mass includes take-off fuel.
- c) The dry operating mass includes fixed equipment needed to carry out a specific flight.
- d) The operating mass includes the traffic load.

37. Refer to CAP697 Section 4 - MRJT1 Page 75 Figure 4.7.2 Area of Operation - Diversion Distance One Engine Inoperative Using the above table, in ISA conditions and at a speed of M.70/280KIAS, in an elapsed time of 90 minutes an aircraft with mass at point of diversion 48000 kg could divert a distance of:

- a) 563 NM
- b) 603 NM
- c) 584 NM
- d) 608 NM[see Annex]

38. What is signified if an occlusion is described as 'cold'?

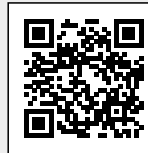
- a) It derives from a polar depression
- b) The air ahead of the associated warm front is colder than the air behind the associated cold front
- c) The air ahead of the associated warm front is less cold than the air behind the associated cold front
- d) On meeting the warm front, the cold front moves up the warm frontal surface

39. Caffeine may cause an increase in cardiac rate, restlessness/nervousness, insomnia, anxiety and intestinal irritability. Excessive consumption is considered to be in excess of:

- a) 40-65 mg/day
- b) 3 mg/day
- c) 150 mg/day
- d) 250 mg/day

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40. Freezing precipitation occurs

- a) Only in the precipitation of a cold front
- b) Only in the precipitation of a warm front
- c) Mainly in the form of freezing rain or freezing drizzle
- d) Mainly in the form of freezing hail or freezing snow

41. Glaucoma is due to:

- a) Damage to the eyeball due to high altitude
- b) Drop in pressure of the liquid around the eye
- c) Excess light on the eyeball
- d) Increase in pressure of the liquid within the eye

42. Which of the following concepts relating to human reliability is true ?

- a) Response to a particular stressful influence does not vary from one person to another.
- b) Expectation has no influence on perception.
- c) If equipment is designed in such a way that it can be operated wrongly, then sooner or later, it will be.
- d) Performance is totally independent of motivation.

43. Airborne weather radar systems use a wavelength of approximately 3 cm in order to:

- a) Obtain optimum use of the cosecant squared beam
- b) Transmit at a higher pulse repetition frequency for extended range
- c) Detect the smaller cloud formations as well as large
- d) Increase in area and move to the top of the screen

44. In the ICAO Standard Atmosphere the decrease in temperature with height below 11 km is

- a) 1°C per 100m
- b) 0.65°C per 100m
- c) 0.6°C per 100m
- d) 0.5°C per 100m

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45. A "Bourdon tube" is used in:

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

46. Which code shall be used on Mode 'A' to provide recognition of an aircraft subjected to unlawful interference?

- a) Code 7500.
- b) Code 2000.
- c) Code 7600.
- d) Code 7700.

47. At the commencement of final approach, if the controller possesses wind information in the form of components, significant changes in the mean surface wind direction and speed shall be transmitted to aircraft. The mean head-wind component significant change is:

- a) 5 KT
- b) 8 KT
- c) 10 KT
- d) 4 KT

48. Which of the following statements about the spin is correct?

- a) An aeroplane is prone to spin when the stall starts at the wing root
- b) In the spin, airspeed continuously increases
- c) During spin recovery the ailerons should be kept in the neutral position
- d) Every aeroplane should be designed such that it can never enter a spin

49. Long period (phugoid) oscillations are characterised by:

- a) Oscillations taking 5 seconds to damp out.
- b) Constant speed.
- c) Long period of damping.
- d) Rapid and repeated changes in effective angle of attack.

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50. What is meant by "Aphelion"?

- a) The point of the sun's orbit furthest away from the earth.
- b) The point of the earth's orbit furthest away from the sun.
- c) The point of the sun's orbit closest to the earth.
- d) The point of the earth's orbit closest to the sun.

51. The advantage of mounting the tailplane on top of the vertical stabilizer (a "T-tail" configuration) is:

- a) To Have Greater Effectiveness At High Speed.
- b) To decrease fuel consumption by creating a tail heavy situation.
- c) That it does not require a de-icing system.
- d) To withdraw it from the influence of wing turbulence.

52. A separation minimum shall be applied between a light or MEDIUM aircraft and a HEAVY aircraft and between a LIGHT aircraft and a MEDIUM aircraft when the heavier aircraft is making a low or missed approach and the lighter aircraft is landing on the same runway in the opposite direction or on a parallel opposite direction runway separated by:

- a) Less than 760 m
- b) 730 m
- c) Less than 730 m
- d) 760 m

53. By adding to the basic empty mass the following fixed necessary equipment for a specific flight (catering, safety and rescue equipment, fly away kit, crew), we get:

- a) Zero fuel mass
- b) Take-off mass
- c) Landing mass
- d) Dry operating mass

54. The term 'Maximum Zero Fuel Mass' consist of:

- a) The maximum permissible mass of an aeroplane with no usable fuel.
- b) The maximum mass for some aeroplanes including the fuel load and the traffic load
- c) The maximum mass authorized for a certain aeroplane not including the fuel load and operational items
- d) The maximum mass authorized for a certain aeroplane not including traffic load and fuel load.

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55. In the troposphere the decrease of pressure per 100 m increase in height

- a) Is smaller at higher levels than at lower levels.
- b) Is in the order of 27 hPa near MSL.
- c) Is greater at higher levels than at lower levels.
- d) Remains constant at all levels.

56. Which of the following factors determines the maximum flight altitude in the 'Buffet Onset Boundary' graph?

- a) Service ceiling
- b) Theoretical ceiling
- c) Economy
- d) Aerodynamics

57. For an aeroplane with a tyre pressure of 16 bars, there is a risk of dynamic hydroplaning as soon as:

- a) Water depth is equal to the depth of the tyre grooves.
- b) Speed is greater than 117 kt.
- c) Cross wind is greater than 15 kt.
- d) Speed is greater than 138 kt.

58. What is the correct way of transmitting the number 13500 to indicate an altitude or cloud height?

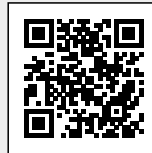
- a) One three five zero zero
- b) One three five hundred
- c) Thirteen thousand five hundred
- d) One three thousand five hundred

59. Which of the following sets of factors will increase the climb-limited TOM (every factor considered independently)?

- a) Low flap setting, low pressure altitude, low OAT
- b) Low flap setting, high pressure altitude, low OAT
- c) Low flap setting, high pressure altitude, high OAT
- d) High flap setting, low pressure altitude, low OAT

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60. When a persistent underexcitation fault is detected on an AC generator connected to the aircraft mains with another AC generator, the protection device opens:

- a) The Generator Breaker And The Tie Breaker.
- b) The tie breaker.
- c) The generator control relay and the generator breaker.
- d) The exciter control relay, the generator breaker and the tie breaker.

61. A temperature sensor has a recovery factor of 0,95. The temperature measured is equal to:

- a) Ram air temperature (RAT) + 95 % of the ram rise.
- b) Static air temperature (SAT) + 95% of the ram rise.
- c) 95 % of the ram air temperature (RAT).
- d) 95 % of the static air temperature (SAT).

62. A great circle track crosses the equator at 30°W has an initial track of 035°T. It's highest or lowest North/South point is:

- a) 55°S 060°W
- b) 35°N 150°W
- c) 35°S 150°E
- d) 55°N 060°E

63. An aircraft is required to approach a VOR station via the 244° radial. In order to obtain correct sense indications the deviation indicator should be set to:

- a) 064° with the FROM flag showing
- b) 244° with the FROM flag showing
- c) 064° with the TO flag showing
- d) 244° with the TO flag showing

64. During poor weather conditions a pilot should fly with reference to instruments because:

- a) His attention will be distracted automatically under these conditions
- b) Perception of distance and speed is difficult in an environment of low contrast
- c) Pressure differences can cause the altimeter to give wrong information
- d) The danger of a 'greying out' will make it impossible to determine the height above the terrain

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65. Given:The take-off mass of an aircraft is 8470 kgTotal fuel on board is 1600 kg including 450 kg reserve fuel and 29 kg of unusable fuel The traffic load is 770 kgWhat is the Zero Fuel Mass?

- a) 6899 kg
- b) 6420 kg
- c) 6129 kg
- d) 6870 kg

66. Approach procedures - CirclingThe visual contact with the runway is lost on the down-wind leg, while circling to land following an instrument approach. You have to initiate a go-around:

- a) Make a turn of 90 degrees towards the runway and try to regain visual contact.
- b) Make an initial climbing turn towards the runway and initiate the missed approach.
- c) Turn towards the runway, maintain altitude and request ATC instructions.
- d) If you have other visual cues of the aerodrome environment, continue with visual ground contact.

67. During flight in IMC, the most reliable sense which should be used to overcome illusions is the:

- a) Vestibular sense
- b) 'Seat-of-the-pants-Sense'
- c) Visual sense by looking outside
- d) Visual sense, interpreting the attitude indicator

68. Which word or phrase shall be used to indicate that a change has been made to your last clearance and this new clearance supersedes your previous clearance or part thereof?

- a) Cleared
- b) Approved
- c) Recleared
- d) Break break

69. What does the word 'negative' mean?

- a) Disregard last instruction
- b) Proposed action granted
- c) Consider that transmission as not sent
- d) Permission not granted

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70. Under which of the following circumstances does a VOR/DME Area Navigation system switch to Dead Reckoning mode?

- a) VOR/DME Area Navigation computer is not receiving information from the aircraft compass system.
- b) VOR/DME Area Navigation computer is not receiving information from the Air Data Computer.
- c) When "DR" is selected by the pilot.
- d) Beam width

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Schema Risposte

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

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