

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. Refer to CAP697 MRJT1 Figure 4.7.2 (One Engine Inop): An aircraft on an extended range operation is required never to be more than 120 minutes from an alternate, based on 1 engine inoperative LRC conditions in IS

- a) Using the above table and a given mass of 40000 kg at the most critical point, the maximum air distance to the relevant alternate is: 810 NM
- b) 794 NM
- c) 875 NM
- d) 735 NM[see Annex]

02. The point at which a tangent out of the origin touches the power required curve

- a) Is the point where Drag coefficient is a minimum.
- b) Is the point where the Lift to Drag ratio is a minimum.
- c) Is the point where the Lift to Drag ratio is a maximum.
- d) Is the maximum drag speed.

03. With regard to the drift down performance of the twin jet aeroplane, why does the curve representing 35000 kg gross mass in the chart for drift down net profiles start at approximately 4 minutes at FL370?

- a) Due to higher TAS at this mass it takes more time to develop the optimal rate of descent, because of the inertia involved
- b) Because at this mass the engines slow down at a slower rate after failure, there is still some thrust left during four minutes
- c) All the curves start at the same point, which is situated outside the chart
- d) Because at this mass it takes approximately 4 minutes to decelerate to the optimum speed for drift down at the original cruising level[see Annex]

04. What cloud cover is typical for a wide warm sector of a polar front depression over Central Europe in the summer?

- a) Sky clear
- b) BKN CU and CB
- c) ST with drizzle
- d) Fair weather CU

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05. The floor of the main cargo hold is limited to 4000 N/m². It is planned to load a cubic container each side of which measures 0.5 m. Its maximum gross mass must not exceed: (assume $g=10\text{m/s}^2$)

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

06. When turning into a desired radial, FD bars indicate:

- a) 45° angle of bank.
- b) 30° angle of bank.
- c) Correct attitude to intercept radial.
- d) 15° angle of bank.

07. A higher pressure altitude at ISA temperature:

- a) Increases the climb limited take-off mass
- b) Decreases the take-off distance
- c) Has no influence on the allowed take-off mass
- d) Decreases the field length limited take-off mass

08. The selection of code 7600 on an aircraft SSR transponder indicates:

- a) An emergency
- b) Radio communication failure
- c) Transponder malfunction
- d) 6.8 km

09. The fuel plan gives a trip fuel of 65 US gallons. The alternate fuel, final reserve included, is 17 US gallons. Contingency fuel is 5% of the trip fuel. The usable fuel at departure is 93 US gallons. At a certain moment the fuel consumed according to the fuel gauges is 40 US gallons and the distance flown is half of the total distance. Assume that fuel consumption doesn't change. Which statement is right ?

- a) The remaining fuel is not sufficient to reach the destination with reserves intact
- b) At destination the required reserves remain intact.
- c) At departure the reserve fuel was 28 US gallons
- d) At the destination there will still be 30 US gallons in the tanks

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10. In the absence of wind and without the astronomic precession effect, an aircraft would, at a constant gyro heading, follow a:

- a) Rhumb line
- b) Great circle line
- c) Straight map line
- d) Spherical flight segment

11. The block diagram of an auto-pilot is shown in the annex. For each control channel (pitch, roll and yaw) the piloting law is the relationship between the deflection of the control surface commanded by the computer (BETA c) and the:

- a) Pilot command E.
- b) Aircraft response S.
- c) Offset EPSILON at the computer input.
- d) Real deflection of the control surface (BETA control surface feedback).

12. ICAO (International Civil Aviation Organization) Appendix 18 is a document dealing with:

- a) The noise pollution of aircraft
- b) The air transport of live animals
- c) The technical operational use of aircraft
- d) The safety of the air transport of dangerous goods

13. When asked by ATC "ARE YOU ABLE TO MAINTAIN FL80?" the correct reply contains the word:

- a) AFFIRM or NEGATIVE
- b) WILCO
- c) CLEARED
- d) ROGER

14. An aeroplane whose maximum approved passenger seating configuration is 31 to 60 seats must be equipped with at least:

- a) 4 hand fire-extinguishers conveniently located in the passenger compartment.
- b) 3 hand fire-extinguishers conveniently located in the passenger compartment.
- c) 5 hand fire-extinguishers conveniently located in the passenger compartment.
- d) 2 hand fire-extinguishers conveniently located in the passenger compartment.

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15. The physiological effects of accelerations to the human body depend on:1. the duration of the G-forces2. the onset rate of the G-forces3. the magnitude of the G-forces4. the direction of the G-forces.

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

16. An artificial feel unit is necessary in the pitch channel of a flight control system when:

- a) The elevators are actuated by irreversible servo-control units.
- b) There Is A Trimmable Stabilizer.
- c) The Elevators Are Fitted With Servo-tabs Or Trim Tabs.
- d) The Elevators Are Actuated By Reversible Servo-control Units.

17. The type of hypoxia, which occurs at altitude is a explained by:

- a) Boyle Mariotte's law
- b) Dalton's law
- c) Graham's law
- d) Henry's law

18. What is the wavelength of an NDB transmitting on 375 kHz?

- a) 800 m
- b) 8 m
- c) 80 m
- d) The data is based on the direction to the satellite determined at the location of the antenna

19. An aeroplane is in steady cruise at flight level 270. The auto-throttle maintains a constant calibrated airspeed. If the static air temperature decreases, the Mach number:

- a) Remains constant.
- b) Increases if the outside temperature is higher than the standard temperature, decreases if lower.
- c) Decreases.
- d) Increases.

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20. In order to avoid CB a pilot wants to turn right to a magnetic heading of 100 degrees. The correct way to ask the ATC unit for permission is:

- a) Request right turn to heading one-double-0
- b) Request right turn to heading one-hundred degrees
- c) Request right turn to heading one-point-zero-zero
- d) Request right turn, heading one-zero-zero

21. The human ear is capable of perceiving vibrations between the frequencies

- a) 20 - 20000 Hz
- b) 30 - 15000 dB
- c) 20000 - 40000 Hz
- d) 0 - 16 Hz

22. Two identical turbojet aeroplanes (whose specific fuel consumption is assumed to be constant) are in a holding pattern at the same altitude. The mass of the first one is 95000 kg and its hourly fuel consumption is equal to 3100 kg/h. Since the mass of the second one is 105000 kg, its hourly fuel consumption is:

- a) 3259 kg/h
- b) 3426 kg/h
- c) 3602 kg/h
- d) 3787 kg/h

23. If an aircraft is flying (with flaps and landing gear retracted) in proximity to terrain and its GPWS (Ground Proximity Warning System) get activated, because it is detecting that the aeroplane has an excessive rate of descent, the system provides the following aural warning signals:

- a) 'SINK RATE, SINK RATE' followed by 'WHOOOP WHOOOP PULL UP' (twice)
- b) 'TOO LOW, TERRAIN' (twice) followed by 'TOO LOW GEAR' (twice)
- c) 'TERRAIN, TERRAIN' followed by 'WHOOOP WHOOOP PULL UP' (twice)
- d) 'DON'T SINK, DON'T SINK'

24. How many feet you have to climb to reach FL 75? Given: FL 75 departure aerodrome elevation 1500' QNH = 1023 hPa temperature = ISA 1 hPa = 30'

- a) 6000'
- b) 6300'
- c) 7800'
- d) 5700'

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25. A Category 1 Instrument Landing System (ILS) ground installation provides accurate guidance from coverage limit down to:

- a) Runway surface
- b) 200 feet above the runway threshold
- c) 50 feet above ILS reference point
- d) L2-coarse acquisition (C/A)

26. VNO is the maximum speed:

- 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.

27. In the ground-air emergency code the symbol "X" means:

- a) Require medical assistance.
- b) Place suitable for helicopter landing.
- c) Yes.
- d) Require assistance.

28. The Low Altitude Radio Altimeter uses the following wavelengths:

- a) Centimetric.
- b) Metric.
- c) Decimetric.
- d) Myriametric.

29. An ADF provides the aircraft with bearing information with respect to a ground station. To do this, the ground station emits a signal pattern which is:

- a) Frequency modulated at 30 Hertz
- b) A beam rotating at 30 Hertz
- c) Omnidirectional
- d) Non precision approach on the precision approach end of the runway

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30. What is the cross track deviation (XTK) indicated on an RNAV system?

- a) The distance between the actual position and the great circle track between two active waypoints.
- b) The distance between the air position and the planned track
- c) The distance between the air position and the great circle track between two active waypoints.
- d) The transmitter moves toward the receiver

31. Aircraft struck by lightning may sometimes get considerable damage, and at least temporarily, the manoeuvring ability of the aircraft will be made more difficult. Which one of the following statements is correct?

- a) An aircraft made of metal has a certain capacity to attract lightning, but the lightning will follow the surface and therefore no damage will be caused
- b) An aircraft has in the atmosphere the same qualities as a 'Faraday cage', which means that a strike by lightning seldom occurs. But if it happens, the result will be an occasional engine failure. The crew may get a shock.
- c) Aircraft made of composite material may get severe damage, the crew may be blinded and temporarily lose hearing
- d) Aircraft made of composite material cannot conduct lightning and will therefore very seldom be struck

32. Which phrase shall be used if you want to say: "Communication is difficult. Please send every word or group of words twice"?

- a) Say again, say again
- b) Repeat twice
- c) Words twice
- d) Message second time

33. Which word shall be used to indicate that an error has been made in a transmission or message?

- a) Negative
- b) Correct
- c) Disregard
- d) Correction

34. On a Direct Mercator chart, a rhumb line appears as a:

- a) Small circle concave to the nearer pole
- b) Spiral curve
- c) Straight line
- d) Curve convex to the nearer pole

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35. What does 'SELCAL' mean:

- a) A system which permits the selective calling of individual aircraft over radiotelephone channels linking a ground station with the aircraft
- b) A system provided for direct exchange of information between air traffic services (ATS) units
- c) A system in which radiotelephony communication between two stations can take place in both directions simultaneously
- d) A system in which radiotelephony communication can be established between aircraft only

36. Find the time to the Point of Safe Return (PSR). Given: Maximum useable fuel 15000 kg, Minimum reserve fuel 3500 kg, TAS out 425 kt, Head wind component out 30 kt, TAS return 430 kt, Tailwind component return 20 kt, Average fuel flow 2150 kg/h

- a) 2 h 59 min
- b) 3 h 43 min
- c) 2 h 43 min
- d) 2 h 51 min

37. 1. Lively information is easier to take into consideration for creating a mental picture than boring information. 2. The sequence in which information is offered is also important for the use the pilot makes of it.

- a) 1 is correct, 2 is not correct
- b) 1 and 2 are both correct
- c) 1 and 2 are both not correct
- d) 1 is not correct, 2 is correct

38. What is the minimum field length required for the worst wind situation, landing a twin jet aeroplane with the anti-skid inoperative? Elevation: 2000 ft QNH: 1013 hPa Landing mass: 50 000 kg Flaps: as required for minimum landing distance Runway condition: dry Wind: Maximum allowable tailwind: 15 kt Maximum allowable headwind: 50 kt

- a) 2600 m.
- b) 3100 m.
- c) 2900 m.
- d) 2700 m. [see Annex]

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39. Which phraseology shall a pilot use if he receives an instruction from ATC which he cannot carry out:

- a) Negative instruction
- b) Impossible to make it
- c) Unable to comply
- d) Disregard

40. The commonly used symbol of resistance is:

- a) R and it is measured in ohms.
- b) I and it is measured in amperes.
- c) P and it is measured in watts.
- d) U And It Is Measured In Volts.

41. How does temperature vary with increasing altitude in the ICAO standard atmosphere below the tropopause?

- a) Increases
- b) Decreases
- c) Remains constant
- d) At first it increases and higher up it decreases

42. An aircraft has a maximum certificated take-off mass of 137000 kg but is operating at take-off mass 135000 kg. In Item 9 of the ATC flight plan its wake turbulence category is:

- a) Medium 'M'
- b) Heavy/medium 'H/M'
- c) Medium plus 'M+'
- d) Heavy 'H'

43. During a flight to Europe, planned in MNPS (Minimum Navigation Performance Specification) airspace, you expect to cross the 30°W meridian at 00H30 UTC

- a) You will then normally be
- c) Within the organised daytime track system
- d) Within the organised night-time track system

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44. Which of the following conditions is most likely to lead to the formation of steam fog (arctic smoke)?

- a) Warm air moving over cold water
- b) The sea is warmed by strong radiation from the sun
- c) Cold air moving over warm water
- d) The coastal region of the sea cools at night

45. During a glide at constant Mach number, the pitch angle of the aeroplane will:

- a) Increase
- b) Increase at first and decrease later on
- c) Decrease
- d) Remain constant

46. Given: TAS = 230 kt, HDG (T) = 250°, W/V = 205/10kt. Calculate the drift and GS?

- a) 2L - 224 kt
- b) 1L - 225 kt
- c) 2R - 223 kt
- d) 1R - 221 kt

47. Given: true course (TC) 017 W/V 340/30TAS 420 kt Find: wind correction angle (WCA) and ground speed (GS)

- a) WCA +2° GS 396 kt
- b) WCA -2° GS 426 kt
- c) WCA -2° GS 396 kt
- d) WCA +2° GS 416 kt

48. When an ATC flight plan is submitted for a flight outside designated ATS routes, points included in Item 15 (route) should not normally be at intervals of more than:

- a) 20 minutes flying time or 150 km
- b) 15 minutes flying time or 100 km
- c) 30 minutes flying time or 370 km
- d) 1 hour flying time or 500 km

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49. The resistance phase of stress:

- a) Allows fats to be transformed into sugars, thereby prolonging the mobilization of energy in the body
- b) Is very short duration and is unlikely to give a pilot the opportunity to resolve a problem
- c) May cause a person to die by stopping the defence mechanisms of the body
- d) Is characterised by the secretion of adrenalin, increased heart rate and blood pressure

50. 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

51. Which of the following provides maximum obstacle clearance during climb?

- a) 1.2Vs
- b) The speed for maximum climb angle V_x
- c) The speed, at which the flaps may be selected one position further UP
- d) The speed for maximum rate of climb

52. OPS 1 applies to:

- a) Aircraft used by police, customs and defence departments.
- b) Aircraft proceeding from European states or flying over them.
- c) The operation by a EASA state member of any civil aircraft.
- d) The operation by a EASA state member of any civil commercial transport aeroplane.

53. Given: true track 352° variation 11° W deviation is -5° drift 10° R. Calculate the compass heading?

- a) 346°
- b) 018°
- c) 358°
- d) 025°

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54. What is the boundary layer between troposphere and stratosphere called?

- a) Tropopause.
- b) Atmosphere.
- c) Stratosphere.
- d) Ionosphere.

55. The Central Processing Unit (CPU) of a computer essentially consists of:1. an Arithmetic and Logic Unit (ALU)2. a control and timing unit3. registersThe combination which regroups all the correct statements is:

- a) 1,3
- b) 1,2
- c) 2,3
- d) 1,2,2003

56. What does the word 'approved' mean?

- a) That is correct
- b) Permission for proposed action granted
- c) I repeat for clarity or emphasis
- d) Authorized to proceed under the conditions specified

57. The acquisition of a motor programme (skill) will mean that:

- a) The more behaviour is automated, the more it requires attention and the more it frees resources
- b) The more behaviour is automated, the less it requires conscious attention and thus the more it frees mental resources
- c) The less behaviour is automated, the less it requires attention and the more it frees resources
- d) The more behaviour is automated, the more it requires attention and the less it frees resources

58. Refer to the General Student Pilot Route Manual - VFR Chart ED-4 Give the name and frequency of the Flight Information Service for an aeroplane in position (47°59'N, 010°14'E) at 5000'.

- a) MUNCHEN INFORMATION 126.95 MHz
- b) MEMMINGEN INFORMATION 122.1 MHz
- c) FRANKFURT INFORMATION 128.95 MHz
- d) MUNCHEN INFORMATION 120.65 MHz

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59. The greatest wake turbulence occurs when the generating aircraft is:

- a) Large, heavy, at maximum speed in full flaps configuration
- b) Small, light, at low speed in clean configuration
- c) Large, heavy, at low speed in clean configuration
- d) Small, light, at maximum speed in full flaps configuration

60. Which statement is correct concerning the effect of the application of carburettor heat?

- a) The Volume Of Air Entering The Carburettor Is Reduced, Thus Leaning The Fuel/air Mixture.
- b) The density of the air entering the carburettor is reduced, thus enriching the fuel/air mixture.
- c) The volume of air entering the carburettor is reduced, thus enriching the fuel/air mixture.
- d) The Density Of The Air Entering The Carburettor Is Reduced, Thus Leaning The Fuel/air Mixture.

61. Which FL corresponds with the 500 hPa pressure level ?

- a) FL 160
- b) FL 100
- c) FL 180
- d) FL 390

62. Who in the aviation industry is responsible for flight safety?

- a) Aircrew and Ground crew
- b) Aircrew
- c) Management, Aircrew, Ground crew and ATC
- d) Everyone involved

63. The planned flight is over a distance of 440 NM. Based on the wind charts at altitude the following components are found: FL50: -30kt FL100: -50kt FL180: -70kt. The Operations Manual in appendix details the aircraft's performances. Which of the following flight levels (FL) gives the best range performance:

- a) FL 100
- b) FL 180
- c) Either FL 050 or FL 100
- d) FL 050

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64. If two constant frequency AC generators are operating independently, then the phase relation between both generators:

- a) Must Be 120° Out Of Phase.
- b) Must be synchronised.
- c) Must be 240° out of phase.
- d) Is unimportant.

65. A diluter demand oxygen regulator:

- a) Is Only Recommended For Use With Smoke In The Cockpit.
- b) Delivers oxygen flow only above FL 100.
- c) Mixes air and oxygen in a passenger oxygen mask.
- d) Delivers oxygen flow when inhaling.

66. The process of responding to a sender by confirming the reception of a message is called

- a) Feedback
- b) Transference
- c) Synchronization
- d) Redundancy

67. An aircraft on an IFR flight in VMC experiences radio communication failure. The aircraft is assumed to:

- a) Return to the aerodrome of departure
- b) Land at the alternate aerodrome
- c) Land at the nearest suitable aerodrome
- d) Land at the destination aerodrome

68. A piece of equipment on your public transport aircraft fails while you are still parked. The reference document you use to decide on the procedure to follow is:

- a) The OPS.
- b) The operations manual's chapter 'Abnormal and Emergency procedures'.
- c) The flight manual.
- d) The minimum equipment list.

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69. In the Flight Management Computer (FMC) of the Flight Management System (FMS), data relating to V1, VR and V2 speeds is stored in the:

- a) Performance database
- b) Auto flight computer
- c) Navigation database
- d) Air data computer

70. An ATS airspace where IFR and VFR are permitted and receive flight information service if requested, is classified as

- a) Airspace F and G
- b) Airspace F
- c) Airspace C
- d) Airspace E and F

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Schema Risposte

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

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