

Simulazione di Esame

Flight Planning and Monitoring - ATPL - Airline Transport Pilot Licence, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. The consequences of exceeding Mcrit in a swept-wing aeroplane may be: (assume no corrective devices, straight and level flight)

- a) Engine unbalance and buffeting.
- b) An increase in speed and a tendency to pitch up.
- c) Buffeting of the aeroplane and a tendency to pitch up.
- d) Buffeting of the aeroplane and a tendency to pitch down.

02. Given: Distance from departure to destination 2800 NM True track 140W/V 140/100TAS 500 kt What is the distance and time of the PET from the departure point?

- a) Distance: 1400 NM Time: 168 min
- b) Distance: 1120 NM Time: 112 min
- c) Distance: 1120 NM Time: 134 min
- d) Distance: 1680 NM Time: 252 min

03. Signal reception is required from a minimum number of satellites that have adequate elevation and suitable geometry in order for a Satellite-Assisted Navigation System (GPS) to carry out independent three dimensional operation without the Receiver Autonomous Integrity Monitoring (RAIM) function. The number of satellites is:

- a) 6
- b) 5
- c) 3
- d) Auto flight computers

04. 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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05. Calculate the constant of the cone on a Lambert Chart given convergency between 010°E and 030°W as being 30°:

- a) 0.64
- b) 0.40
- c) 0.50
- d) 0.75

06. When descending at a constant Mach number:

- a) The difference between surrounding conditions and ISA must be known to deduce the CAS variation.
- b) CAS decreases.
- c) CAS increases.
- d) CAS remains constant.

07. The aerodynamic centre of the wing is the point, where:

- a) Changes of lift due to variations in angle of attack are constant.
- b) Aerodynamic forces are constant.
- c) The pitching moment coefficient does not vary with angle of attack.
- d) The aeroplane's lateral axis intersects with the centre of gravity.

08. VMC minima for VFR flights in Class B airspace, above 3050 m (10000') MSL are:

- a) 8 km visibility, and clear of clouds
- b) No minima, VFR flights are not permitted
- c) 8 km visibility, 1500 m horizontal and 1000 ft vertical distance from clouds
- d) 5 km visibility, 1500 m horizontal and 1000 ft vertical distance from clouds

09. The temperature lapse rate of the standard atmosphere in the troposphere is:

- a) -6,5°C/1000 FT
- b) -3°C/1000 FT
- c) -2,5°C/1000 FT
- d) -1.98°C/1000 FT

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10. When the term 'Broken' is used in an aviation routine weather report (METAR), the amount of clouds covering the sky is:

- a) 1 to 4 oktas
- b) 5 to 7 oktas
- c) No clouds below 5000 feet
- d) 8 oktas below 10000 feet

11. What is the average track (M) and distance between WTD NDB (N5211.3 W00705.0) and KER NDB (N5210.9 W00931. 5)?

- a) North and south limits of the chart
- b) Standard parallels
- c) Parallel of origin
- d) Equator

12. The data that needs to be inserted into an Inertial Reference System in order to enable the system to make a successful alignment for navigation is:

- a) 9
- b) 10
- c) 11
- d) 12

13. The ATC transponder system,excluding Mode S, contains:

- a) Four modes, each 4096 codes
- b) Two modes, each of 4096 codes
- c) Four modes, each 1024 codes
- d) The radar frequency used.

14. Given:SHA VOR/DME (N5243.3 W00853. 1) radial 048°/22 NM.What is the aircraft position?

- a) N5258 W00825
- b) N5300 W0830
- c) N5228 W00920
- d) N5225 W00917[see Annex]

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15. What is the correct way to transmit and read back frequency 120.375 MHz (VHF channel separated by 25 KHz):

- a) One two zero decimal three seven five
- b) One twenty decimal three seven
- c) One two zero three seven
- d) One two zero decimal three seven

16. A ground feature was observed on a relative bearing of 325° and five minutes later on a relative bearing of 280°. The aircraft heading was 165°(M), variation 25°W, drift 10°Right and GS 360 kt. When the relative bearing was 280°, the distance and true bearing of the aircraft from the feature was:

- a) 40 NM and 060°
- b) 30 NM and 240°
- c) 30 NM and 060°
- d) 40 NM and 240°

17. What is the most significant difference between an equatorial jet stream and all the other jet streams ?

- a) Wind direction.
- b) Wind speed.
- c) Horizontal dimension.
- d) Vertical dimension.

18. Refer to CAP697 Section 4 - MRJT1 Figures 4.5.2 and 4.5.3.4 Given: Distance C - D: 540 NMCruise 300 KIAS at FL 210 Temperature Deviation from ISA: +20°C Headwind component: 50 ktGross mass at C: 60 000 kgThe fuel required from C to D is:

- a) 4242 kg
- b) 3350 kg
- c) 3680 kg
- d) 4620 kg

19. Refer to the Jeppesen General Student Pilot Route Manual - VFR Chart ED-4Flying VFR from VILLINGEN (48°03.5'N, 008°27.0'E) to FREUDENSTADT (48°28.0'N,008°24.0'E) determine the magnetic course.

- a) 176°
- b) 355°
- c) 185°
- d) 004°

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20. Contracting States shall establish a rescue co-ordination centre:

- a) At every ATS facility.
- b) At every international airport.
- c) If they are adjacent to the sea.
- d) In each search and rescue region.

21. Air passes a normal shock wave. Which of the following statements is correct?

- a) The static temperature increases
- b) The velocity increases
- c) The static temperature decreases
- d) The static pressure decreases

22. If it exists, the M.M.E.L. (Master Minimum Equipment List) is drawn up by:

- a) The aircraft manufacturer's list.
- b) The operator.
- c) The aircraft state of registry.
- d) The manufacturer / the type certificate holder.

23. Which statement about reduced thrust is correct?

- a) Reduced thrust is primarily a noise abatement procedure
- b) Reduced thrust can be used when the actual take-off mass is less than the field length limited take-off mass
- c) In case of reduced thrust V_1 should be decreased
- d) Reduced thrust is used in order to save fuel

24. The essential difference between aircraft AC alternators and DC generators (dynamoes) is that the:

- a) Alternators Supply All Of The Output Current Through The Commutators And Brush Assemblies.
- b) Induced windings of the alternators are rotating (rotor), and the dynamoes have a rotary inductor coil.
- c) The alternators generate much less power than DC generators.
- d) Induced (output) windings of the alternators are fixed (stator), and the dynamoes have a fixed Inductor (field) coil.

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25. A life jacket is mandatory for each person on board an aeroplane when flying over water at a distance from the shore of more than:

- a) 100 NM
- b) 200 NM
- c) 50 NM
- d) 400 NM

26. After the transition point between the laminar and turbulent boundary layer

- a) The mean speed increases and the friction drag decreases
- b) The boundary layer gets thinner and the speed increases
- c) The boundary layer gets thicker and the speed decreases
- d) The mean speed and friction drag increases

27. When taking-off after a widebody aircraft which has just landed, you should take-off:

- a) In front of the point where the aircraft's wheels have touched down.
- b) Beyond the point where the aircraft's wheels have touched down.
- c) At the point where the aircraft's wheels have touched the ground and on the underwind side of the runway .
- d) At the point where the aircraft's wheels have touched down and on the wind side of the runway .

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

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

29. Departure procedure - DesignThe main factor/s that dictate/s in general the design of an instrument departure procedure is/are:

- a) ATC availability and requirements.
- b) Availability of navigation aids.
- c) The terrain surrounding the aerodrome.
- d) Airspace restrictions applicable and in force.

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30. Considering a primary radar system, what kind of aeriels are used?

- a) A directional antenna for transmitting, and an omni-directional antenna for receiving.
- b) One directional antenna for transmitting and one for receiving.
- c) One directional antenna both for transmitting and for receiving.
- d) Multichannel

31. Decision-making results in:

- a) A choice between different options to achieve a goal
- b) A subjective choice between options to achieve a goal
- c) A totally objective choice between options to achieve a goal proposed by the Pilot in Command
- d) A choice always based on the experience of the Pilot in Command

32. Which type of flap is shown in the picture?

- a) Double slotted flap
- b) Fowler flap
- c) Split flap
- d) Plain flap

33. What does the word 'contact' mean?

- a) Radar contact established
- b) Listen out on (frequency)
- c) Establish radio contact with ...
- d) That is correct

34. 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

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35. The continuity equation states: If the area of a tube is increasing, the speed of the subsonic and incompressible flow inside is

- a) Decreasing
- b) Sonic
- c) Increasing
- d) Not changing

36. Given: Dry operating mass (DOM)= 33510 kg Traffic Load= 7600 kg Final reserve fuel= 983 kg Alternate fuel= 1100 kg Contingency fuel 102 kg The estimated landing mass at alternate should be:

- a) 42093 kg.
- b) 42195 kg.
- c) 42312 kg.
- d) 42210 kg.

37. Refer to the General Student Pilot Route Manual - VFR Chart ED-4 Flying VFR from PEITING (47°48.0'N, 010°55.5'E) to IMMENSTADT (47°33.5'N, 010°13.0'E) determine the magnetic course.

- a) 257°
- b) 063°
- c) 077°
- d) 243°

38. Which of these statements about a gust lock system are correct or incorrect? 1) Irreversible flight controls should have a gust lock. 2) There is no need for a gust lock on manual flight controls.

- a) 1) is incorrect, 2) is incorrect.
- b) 1) Is Correct, 2) Is Incorrect.
- c) 1) Is Incorrect, 2) Is Correct.
- d) 1) Is Correct, 2) Is Correct.

39. 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

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40. Which forces are balanced with geostrophic winds?

- a) Friction force, Pressure gradient force, Coriolis force.
- b) Pressure gradient force, Coriolis force.
- c) Pressure gradient force, Centrifugal force, Friction force.
- d) Pressure gradient force, Coriolis force, Centrifugal force.

41. A jet aeroplane equipped with old engines has a specific fuel consumption of 0.06 kg per Newton of thrust and per hour and, in a given flying condition, a fuel consumption of 14 kg per NM. In the same flying conditions, the same aeroplane equipped with modern engines with a specific fuel consumption of 0.035 kg per Newton of thrust and per hour, has a fuel consumption per NM of:

- a) 11.7 kg / NM
- b) 14 kg / NM
- c) 10.7 kg / NM
- d) 8.17 kg / NM

42. Which of the following statements concerning the variation in wind speed between summer and winter on the North Atlantic between FL 300 and FL 400 is most correct?

- a) The average westerly component is greater in the winter than in the summer. The latitude of the axis of greatest seasonal wind speed is further south in winter than in summer
- b) The average westerly component is greater in the summer than in the winter. The latitude of the axis of greatest wind speed is also further north in summer than in winter
- c) The average westerly component remains the same but the altitude of greatest wind speed reduces in winter
- d) The average westerly component remains the same but the axis of greatest speeds moves south in winter

43. With respect to a single-engine piston powered aeroplane, determine the zero fuel moment (lbs.in./100) in the following conditions: Basic Empty Mass: 2415 lbs. Arm at Basic Empty Mass: 77,9 In. Cargo Zone A: 350 lbs. Baggage Zone B: 35 lbs. Pilot and front seat passenger: 300 lbs (total)

- a) 6675
- b) 2496,3
- c) 2548,8
- d) 2311,8

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44. The speed range between high- and low speed buffet:

- a) Increases during climb.
- b) Decreases during a descent at a constant Mach number.
- c) Increases during a descent at a constant IAS.
- d) Is always positive at Mach numbers below MMO.

45. Which statement is correct?I. Stall speeds are determined with the CG at the aft limit.II. Minimum control speeds are determined with the CG at the forward limit.

- a) I is incorrect, II is incorrect.
- b) I is incorrect, II is correct.
- c) I is correct, II is incorrect.
- d) I is correct, II is correct.

46. In a primary radar using pulse technique, pulse recurrence frequency (PRF)/pulse recurrence rate (PRR) determines:

- a) Target discrimination
- b) Minimum range
- c) Maximum theoretical range
- d) 280°

47. Refer to CAP 697 Section 2 SEP1 Page 3 Figure 2.1 Time, Fuel and Distance to Climb. Given: Take-off mass 3500 lbs, departure aerodrome pressure altitude 2500 ft, OAT +10°C, First cruising level: FL 140, OAT -5°C Find the time, fuel and still air distance to climb.

- a) 24 min, 7.7 GAL, 47 NAM
- b) 16.5 min, 4.9 GAL, 34.5 NAM
- c) 23.5 min, 7.1 GAL, 48.5 NAM
- d) 23 min, 7.7 GAL, 50 NAM

48. With what type of cloud is '+TSRA' precipitation most commonly associated?

- a) SC
- b) AS
- c) NS
- d) CB

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49. Torsion in a wing can be caused by:

- a) Positive sweep.
- b) Propwash.
- c) Wing tip vortex.
- d) Dihedral.

50. Where dangerous goods are carried on a flight which takes place wholly or partly outside the territory of a State, which language must be used on the transport document in addition to any other language ?

- a) Spanish
- b) French
- c) English, French, Spanish, Russian, Chinese
- d) English

51. 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)

52. If radio communication is established during an interception but communications in a common language is not possible, which phrase should be pronounced by the intercepting aircraft to request the intercepted aircraft to descend for landing?

- a) You land
- b) Let down
- c) Descend for landing
- d) Descend

53. A VOR and an ADF are co-located. In NIL wind conditions you cross the VOR radial of 240 on a heading of 360°(M). In the vicinity of the station you should read an ADF bearing of:

- a) 240
- b) 060
- c) 120
- d) 300

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54. 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.

55. 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'

56. Which of the following statements is/are correct?1. REM-sleep becomes shorter with any repeated sleep cycle during the night.2. REM-sleep is more important for the regeneration of mental functions than all the other sleep stages are.

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

57. With regard to the graph for the light twin aeroplane, will the accelerate and stop distance be achieved in a take-off where the brakes are released before take-off power is set?

- a) No, the performance will be worse than in the chart
- b) It does not matter which take-off technique is being used
- c) Yes, the chart has been made for this situation
- d) Performance will be better than in the chart

58. To measure the mass and CG-position of an aircraft, it should be weighed with a minimum of:

- a) 3 points of support
- b) 4 point of support
- c) 1 point of support
- d) 2 points of support

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59. The aircraft commander, when he has reasonable grounds to believe that a person has committed or is about to commit, on board the aircraft, an offence against penal law

- a) May deliver such person to the competent authorities
- b) May not require or authorise the assistance of other crew members
- c) May require the assistance of passengers to restrain such person
- d) May request such person to disembark

60. According to the JAR-OPS requirements, an IFR flight with no alternate aerodrome can be undertaken only if the minimum weather conditions (VMC) are effective for at least:

- a) 2 hours before to at least 2 hours after the expected time of arrival
- b) 3 hours before to at least 1 hour after the expected time of arrival
- c) 1 hour before to at least 1 hour after the expected time of arrival
- d) 3 hours before to at least 3 hours after the expected time of arrival

61. With reference to inertial navigation systems, a TAS input is:

- a) 2
- b) 3
- c) 6
- d) 1

62. How does the Electronic Flight Instrument System display of a B737-400 respond to the failure of a VHF navigation (VOR) receiver?

- a) The pointer rotates around the display and a VOR 1 or 2 failure warning bar appears
- b) It removes the associated magenta deviation bar and/or pointer from the display
- c) The pointer flashes and a VOR 1 or 2 failure warning bar appears
- d) The deviation bar and/or pointer change colour to red and flash intermittently

63. The International Civil Aviation Convention Annex containing standards and recommended practices for Personnel Licensing is:

- a) Annex 11
- b) Annex 2
- c) Annex 12
- d) Annex 1

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64. When comparing a rectangular wing and a swept back wing of the same wing area and wing loading, the swept back wing has the advantage of:

- a) Greater strength
- b) Increased longitudinal stability
- c) Higher critical Mach number
- d) Lower stalling speed

65. The application of a type II anti-icing fluid on an aircraft on ground will provide a:

- a) Protection time up to 24 hours.
- b) Limited holdover time.
- c) Protection against icing for the duration of the flight.
- d) Limited time of protection independent of the outside temperature.

66. What does the abbreviation 'RVR' mean:

- a) Runway visibility report
- b) Radar vectors requested
- c) Recleared via route...
- d) Runway visual range

67. To optimise one's night-vision performance, it is necessary:- 1: to spend some time getting adapted to low levels of illumination- 2: to increase the instrument panel lighting by reducing the cockpit lighting- 3: not to focus on the point to be observed- 4: to avoid blinding sources of light

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

68. 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.

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69. What is the maximum distance at which you may expect strong VHF reception over flat terrain at FL 140 ?

- a) About 240 NM
- b) About 300 NM
- c) About 40 NM
- d) About 140 NM

70. The advantages of fly-by-wire control are 1. reduction of the electric and hydraulic power required to operate the control surfaces 2. lesser sensitivity to lightning strike 3. direct and indirect weight saving through simplification of systems 4. immunity to different interfering signals 5. improvement of piloting quality throughout the flight envelop The combination regrouping all the correct statements is:

- a) 1 And 2
- b) 1 and 5
- c) 3 and 5
- d) 3, 4 And 5

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Schema Risposte

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

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