

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. Positive g will cause the blood-pressure to the brain to:

- a) Increase
- b) Remain constant
- c) First increase, then decrease
- d) Decrease

02. The voltage regulator of a DC generator is connected in:

- a) Series With The Armature.
- b) Parallel with the armature.
- c) Parallel with the shunt field coil.
- d) Series with the shunt field coil.

03. Which phenomena will normally influence the reception of VHF transmission ?

- a) Electrical discharges as they happen frequently in thunderstorms
- b) The ionosphere
- c) Day- and night effect
- d) Level of aircraft and terrain elevations

04. 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.

05. What is the most important aspect of the 'backside of the power curve'?

- a) The altitude cannot be maintained.
- b) The aeroplane will not stall.
- c) The elevator must be pulled to lower the nose.
- d) The speed is unstable.

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06. Which statement is correct about GLONASS/ NAVSTAR GPS / GALLILEO:

- a) They all reach their degree of accuracy in polar areas
- b) All three system use time measurement to determine position
- c) They are all using the same frequencies to permit a single receiver to work all three systems
- d) Monitor the orbital planes of the satellites

07. The drift down requirements are based on:

- a) The obstacle clearance during a descent to the new cruising altitude if an engine has failed
- b) The landing mass limit at the alternate
- c) The maximum flight path gradient during the descent
- d) The actual engine thrust output at the altitude of engine failure

08. According to PART-FCL, an examiner's authorisation is valid for:

- a) Not more than three years
- b) The period of validity of the medical certificate.
- c) The period of validity of the class/type rating.
- d) Not more than two years

09. For the medium range transport aeroplane, from the loading manual, determine the maximum total volume of fuel which can be loaded into the main wing tanks. (Fuel density value 0.78)

- a) 11646 litres
- b) 8850 litres
- c) 5674 litres
- d) 11349 litres

10. Given: Maximum allowable take-off mass 64400 kg, Maximum landing mass 56200 kg, Maximum zero fuel mass 53000 kg, Dry operating mass 35500 kg, Traffic load 14500 kg, Trip fuel 4900 kg, Take-off fuel 7400 kg Find: Maximum additional load

- a) 7000 kg
- b) 4000 kg
- c) 5600 kg
- d) 3000 kg

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11. The minimum lateral separation in the NAT region is:

- a) 60 NM between aircraft meeting minimum navigation performance specifications.
- b) 90 NM between all aircraft flying in the NAT region.
- c) 60 NM between all aircraft operating below MNPS airspace.
- d) 90 NM between aircraft flying above FL285.

12. The force acting on the needle of a direct reading compass varies:

- a) Inversely with both vertical and horizontal components of the earth's magnetic field
- b) Directly with the vertical component of the earth's magnetic field
- c) Inversely with the horizontal component of the earth's magnetic field
- d) Directly with the horizontal component of the earth's magnetic field

13. Severe compressor stall can be indicated amongst others by:

- a) A Decrease In Tgt And A Change In Vibration Level.
- b) An increase in engine pressure ratio (EPR) and a decrease in TGT and fuel flow.
- c) A rise in TGT and an increase in fuel flow.
- d) A rise in turbine gas temperature (tgt) and a change in vibration level.

14. The expression "secondary flight control" applies to the: 1) elevator 2) speed brake 3) lift-augmentation devices 4) roll spoilers The combination that regroups all of the correct statements is:

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

15. The empty mass of an aeroplane is given as 44800 kg. Operational items (including crew standard mass of 1060 kg) are 2300 kg. If the maximum zero fuel mass is given as 65500 kg, the maximum traffic load which could be carried is:

- a) 23000 kg
- b) 20700 kg
- c) 19460 kg.
- d) 18400 kg

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16. What are the standard masses used for crew?

- a) 88 kgs for flight crew, 76 kgs cabin crew, not including baggage
- b) 85 kgs for flight crew, 75 kgs cabin crew, not including hand baggage
- c) 88 kgs for flight crew, 76 kgs cabin crew, including baggage.
- d) 85 kgs for flight crew, 75 kgs cabin crew, including hand baggage

17. Moment (balance) arms are measured from a specific point to the body station at which the mass is located. That point is known as

- a) The focal point.
- b) The datum.
- c) The centre of gravity of the aircraft.
- d) The axis.

18. A sector distance is 450 NM long. The TAS is 460 kt. The wind component is 50 kt tailwind. What is the still air distance?

- a) 414 Nautical Air Miles (NAM)
- b) 499 Nautical Air Miles (NAM)
- c) 511 Nautical Air Miles (NAM)
- d) 406 Nautical Air Miles (NAM)

19. Given: Standard Empty Mass 1764 lbs Optional Equipment 35 lbs Pilot + Passenger 300 lbs Cargo 350 lbs Ramp Fuel (Block Fuel) 60 Gal Trip Fuel 35 Gal Taxi Fuel 1.7 Gal Final Reserve Fuel 18 Gal Fuel density 6 lbs/Gal Determine the expected landing mass.

- a) 2589 lbs
- b) 2557 lbs
- c) 2472 lbs
- d) 2599 lbs

20. After engine failure the aeroplane is unable to maintain its cruising altitude. What is the procedure which should be followed?

- a) ETOPS.
- b) Emergency Descent Procedure.
- c) Long Range Cruise Descent.
- d) Drift Down Procedure.

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21. For an aircraft flying a true track of 360° between the 5°S and 5°N parallels, the precession error of the directional gyro due to apparent drift is equal to:

- a) $-5^\circ/\text{hour}$
- b) $+5^\circ/\text{hour}$
- c) $15^\circ/\text{hour}$
- d) Approximately $0^\circ/\text{hour}$

22. At what time of the year are typhoons most likely to occur over the southern islands of Japan?

- a) January to May
- b) September to January
- c) May to July
- d) July to November

23. Which of the following is correct regarding the range of an NDB?

- a) Aircraft height is not limiting for the reception of signals from the N
- b) The transmitter power of the NDB station has no effect on the range.
- c) The range of an NDB will most likely increase at day time compared to night time.
- d) The range is limited to the line of sight.

24. During a transoceanic and polar flight, the chart precession is a rotation in degrees, for a moving aircraft, of the gyro North with respect to the:

- a) True North for a given chart
- b) Grid North for any chart
- c) True North for any chart
- d) Grid North for a given chart

25. During a flight at FL 100 from Marseille (QNH 1012 hPa) to Palma de Mallorca (QNH 1015 hPa), an aircraft remains at a constant true altitude. The reason for this is that:

- a) The air at Marseille is colder than that at Palma de Mallorca.
- b) The altimeters are erroneous, and need to be tested.
- c) One of the two QNH values may be incorrect.
- d) The air at Marseille is warmer than that at Palma de Mallorca.

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26. Flight Information Service shall be provided to aircraft in order to avoid collision hazards when operating in airspace classes:

- a) F and G only
- b) A, B, C, D, E, F and G
- c) C, D, E, F, and G
- d) F only

27. The OBS is set on 048°, TO appears in the window. The needle is close to full right deflection. The VOR radial is approximately:

- a) 218°
- b) 058°
- c) 238°
- d) 038°

28. The critical Mach number for an aerofoil equals the free stream airfoil Mach number at which:

- a) The maximum operating temperature is reached.
- b) A shock-wave appears on the upper surface.
- c) Sonic speed ($M=1$) is reached at a certain point on the upper side of the aerofoil.
- d) A 'supersonic bell' appears on the upper surface.

29. During deceleration following a landing in an easterly direction, a magnetic compass made for the northern hemisphere indicates:

- a) An apparent turn to the north.
- b) A constant heading.
- c) An apparent turn to the south.
- d) A heading fluctuating about 090°.

30. When an 'open circuit' occurs in an electrical supply system, the:

- a) Fuse Or Cb Should Isolate The Circuit Due To Excess Current Drawn.
- b) Loss of continuity will prevent its working components from functioning.
- c) Load as indicated by the ammeter will increase.
- d) Component Will Operate Normally, But Will Not Switch Off.

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31. 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

32. A jet aeroplane is climbing at a constant IAS and maximum climb thrust, how will the climb angle / the pitch angle change?

- a) Reduce / remain constant
- b) Reduce / decrease
- c) Remain constant / become larger
- d) Remain constant / decrease

33. Given the following data how much cargo must be moved from the forward hold to the aft hold to achieve a CG at 33% MAC? AUM 200000kg Forward Hold Cargo 6500kg Aft hold Cargo 4000kg Distance between holds 10m Current CG: 30%MAC MAC 4.6m

- a) 6000kg
- b) 2904kg
- c) 1467kg
- d) 2760kg

34. Refer to CAP 696 Fig. 4.11: At the maximum landing mass the range of safe CG positions, as determined from the appropriate graph in the loading manual, is:

- a) Forward limit 7.4% MAC aft limit 27.0% MAC
- b) Forward limit 8.0% MAC aft limit 26.8% MAC
- c) Forward limit 8.6% MAC aft limit 27.0% MAC
- d) Forward limit 8.0% MAC aft limit 27.2% MAC

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35. The ground - air visual signal code for use by survivors on ground in order to indicate "REQUIRE ASSISTANCE" is (search and rescue signals):

- a) N
- b) Y
- c) V
- d) X

36. A VFR flight when flying inside an ATS airspace classified as B has to maintain the following minima of flight visibility and distance from clouds:

- a) 5 km visibility, 1500 m horizontal and 300 m vertical from clouds
- b) 5 km below 3050 m (10000') AMSL and clear of clouds
- c) 8 km below 3050 m (10000') AMSL, 1500 m horizontal and 300 m vertical from clouds
- d) 5 km below 3050 m (10000') AMSL 1500 m horizontal and 300 m vertical from clouds

37. An aeroplane performs a steady horizontal turn with a TAS of 200 KT. The turn radius is 2000m. The load factor (n) is approximately:

- a) 1.4
- b) 1.1
- c) 1.8
- d) 2.0

38. What name is given to the jet stream lying across India (A)?

- a) Polar front jet stream.
- b) Arctic jet stream.
- c) Tropical jet stream.
- d) Sub-tropical jet stream.

39. When letters are used for registration mark combinations shall not be used which might be confused with urgent signals for example

- a) LLL
- b) RCC
- c) DDD
- d) PAN

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40. The standard mass for a child is

- a) 35 kg for holiday charters and 38 kg for all other flights.
- b) 35 kg for all flights.
- c) 30 kg for holiday charters and 35 kg for all other flights.
- d) 38 kg for all flights.

41. In order to get rid of excess nitrogen following scuba diving, subsequent flights should be delayed

- a) 3 hours after non decompression diving
- b) 24 hours
- c) 48 hours after a continuous ascent in the water has been made
- d) 36 hours after any scuba diving

42. In relation to the satellite navigation system NAVSTAR/GPS, the term 'inclination' denotes the angle between the:

- a) Horizontal plane at the location of the receiver and the direct line to a satellite
- b) Orbital plane and the equatorial plane
- c) Horizontal plane at the location of the receiver and the orbital plane of a satellite
- d) It varies, depending on the time and observer's location

43. Rods (scotopic visual cells) allow for:

- a) Good, virtually instantaneous night-vision (scotopic vision)
- b) Good night-vision after adaptation to darkness (30 min)
- c) Red vision, both during the day and at night
- d) Precise vision of contours and colours

44. As a cause of accidents, the human factor:

- a) Is cited in approximately 70 - 80 % of aviation accidents
- b) Plays a negligible role in commercial aviation accidents. It is much more important in general aviation
- c) Which is cited in current statistics, applies to the flight crew and ATC only
- d) Has increased considerably since 1980 - the percentage of accident in which this factor has been involved has more than tripled since this date

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45. You fly VFR from your home base (runway width 27 m), to an international airport (runway width 45 m). On reaching your destination there is a risk of performing a:

- a) High approach with overshoot
- b) Low approach with undershoot
- c) Low approach with overshoot
- d) High approach with undershoot

46. High intensity obstacle lights should be:

- a) Fixed orange.
- b) Flashing white.
- c) Fixed red.
- d) Flashing red.

47. What is meant by the phrase 'readability 4'?

- a) Readable
- b) Readable but with difficulty
- c) Perfectly readable
- d) Readable now and then

48. The tyre pressure of an aeroplane main landing gear is 10,8 bars. There is a risk of hydroplaning as soon as the speed reaches:

- a) 56 kt
- b) 113 kt
- c) 145 kt
- d) 87 kt

49. During certification test flights for a turbojet aeroplane, the actual measured take-off runs from brake release to a point equidistant between the point at which VLOF is reached and the point at which the aeroplane is 35' above the take-off surface are:- 1747 m, all engines operating- 1950 m, with the critical engine failure recognized at V1, the other factors remaining unchanged. Considering both possibilities to determine the take-off run (TOR). What is the correct distance?

- a) 2243 m
- b) 2096 m
- c) 2009 m
- d) 1950 m

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50. At 60° N the scale of a direct Mercator chart is 1: 3 000 000. What is the scale at the equator?

- a) 1: 3 500 000
- b) 1: 3 000 000
- c) 1: 1 500 000
- d) 1: 6 000 000

51. Given: Distance from departure to destination 140 NM GS Out 90 ktGS Home 80 kt What is the distance of the PET from the departure point?

- a) 66 NM
- b) 124 NM
- c) 70 NM
- d) 74 NM

52. Which of the figures depicts an Electronic Flight Instrument System (EFIS) display in PLAN mode?

- a) Figure 4
- b) Figure 3
- c) Figure 6
- d) Height based on QFE

53. How should an ATS unit instruct Fastair 345 to contact Stephenville RADAR on frequency 132.0083 (8.33 KHz frequency spacing)?

- a) Fastair 345 contact Stephenville RADAR channel 132.0083
- b) Fastair 345 contact Stephenville RADAR channel 132.010
- c) Fastair 345 contact Stephenville RADAR on 132.0083
- d) Fastair 345 contact Stephenville RADAR 132.010

54. 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

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55. The time between inadequate oxygen supply and incapacitation is called TUC (Time of Useful Consciousness). It

- a) Varies individually and depends on cabin pressure altitude
- b) Varies individually and does not depend on altitude
- c) Is not dependent on physical or psychological pressure
- d) Is the same amount of time for every person

56. Assuming that an initial 'trigger' force is present, the conditions most likely to result in the formation of thunderstorms are

- a) High surface temperature, low dew point and high dry adiabatic lapse rate
- b) Rapid orographic cooling of cloud containing ice crystals
- c) High relative humidity and instability throughout a deep layer
- d) Intense surface heating, anticyclonic pressure system and relatively high freezing level

57. Under icing conditions, if you exceeded the holdover time, the correct procedure is:

- a) Apply directly anti-icing fluid without previous de-icing.
- b) De-ice again the aeroplane, then apply anti-icing fluid.
- c) De-ice the aeroplane.
- d) Operate the aeroplane de-icing/anti-icing systems.

58. Which of the alternatives represents the correct relationship?

- a) V_2 and V_1 should not exceed $VMCA$
- b) $VMCG$ and V_1 should not exceed VR
- c) V_2 and V_1 should not exceed $VMCG$
- d) $VMCL$ and V_1 should not exceed VR

59. Two identical turbojet aeroplane (whose specific fuel consumptions are considered to be equal) are at holding speed at the same altitude. The mass of the first aircraft is 130000 kg and its hourly fuel consumption is 4300 kg/h. The mass of the second aircraft is 115000 kg and its hourly fuel consumption is:

- a) 4044 kg / h
- b) 3365 kg / h
- c) 3804 kg / h
- d) 3578 kg / h

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60. In an aeroplane, each crew member shall be properly secured by all safety belts and harnesses provided
1 - during taxiing 2 - during take-off 3 - during landing 4 - whenever deemed necessary by the commander in the interest of safety 5 - during other phases of the flight while at his station
The combination regrouping all the correct statements is:

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

61. The stall speed in a 60° banked turn increases by the following factor:

- a) 1.41
- b) 2.00
- c) 1.30
- d) 1.07

62. 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°

63. Consider the flight deck oxygen supply system. The purpose of the oxygen regulator (as a function of demand and altitude) is to:
1. decrease oxygen pressure from 1800 PSI (in the bottles) down to about 50-75 PSI (low pressure system) 2. supply pure oxygen 3. supply diluted oxygen 4. supply oxygen at normal pressure 5. supply oxygen at emergency/positive pressure 6. trigger the continuous cabin altitude warning at 10000 ft cabin altitude
The combination regrouping all the correct statements is:

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

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64. The primary purpose of the bleed valves fitted to axial flow compressors is to:

- a) Control The Acceleration Time Of The Engine.
- b) Spill compressor air should the engine overspeed thus controlling the speed.
- c) Reduce the likelihood of compressor stall.
- d) Enable An External Air Supply To Spin Up The Compressor For Engine Starting.

65. An AIRAC is:

- a) A notice distributed by means of telecommunication containing information concerning the establishment, condition or change in any aeronautical facility service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations.
- b) An acronym for a system aimed at advance notification based on common effective dates, of circumstances necessitating significant changes in operating procedures.
- c) A publication issued by or with the authority of a state containing aeronautical information of a lasting character essential to air navigation.
- d) A package which consists of the following elements: AIP, supplements to the AIP, NOTAM, AIC, checklists and summaries.

66. 'Cabotage' refers to:

- a) Domestic air services
- b) Crop spraying
- c) A flight above territorial waters
- d) A national air carrier

67. Fastair 345 has been instructed to contact Stephenville ARRIVAL on frequency 118.0. What is the correct way to indicate it will follow this instruction:

- a) Changing over Fastair 345
- b) Changing to ARRIVAL Fastair 345
- c) 118.0 Fastair 345
- d) Stephenville ARRIVAL Fastair 345

68. In the transonic range lift will decrease at the shock stall due to the

- a) Attachment of the shock wave on the trailing edge of the wing.
- b) First appearance of a shock wave at the upper side of the wing.
- c) Separation of the boundary layer at the shock waves.
- d) Appearance of the bow wave.

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69. Considering VR, which statement is correct?

- a) VR is the lowest climb speed after engine failure
- b) In case of engine failure below VR the take-off should be aborted
- c) VR is the speed at which rotation should be initiated
- d) VR is the lowest speed for directional control in case of engine failure

70. Given: GS = 510 kt. Distance A to B = 43 NM What is the time (MIN) from A to B?

- 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

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