

Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. In a bootstrap system, the purpose of the heat exchangers is to:

- a) Allow A Homogeneous Temperature By Mixing Air Flows From Various Air Conditioning Groups In Operation.
- b) Cool bleed air.
- c) Cool bleed air and compressor air from the turbo refrigerator.
- d) Allow A Steady Compressor Outlet Temperature.

02. What is meant by good microphone technique ?

- a) Use a normal conversation tone, speak clearly and distinctly.
- b) Make large use of hesitation sounds as 'er'.
- c) Keep the microphone far away since it improves the readability.
- d) Speak very loudly into the microphone.

03. A cantilever wing is:

- a) A High Wing Configuration.
- b) A low wing configuration.
- c) A wing with a rectangular planform.
- d) A wing attached to the fuselage at the wing root only.

04. You are to determine the maximum fuel load which can be carried in the following conditions: - dry operating mass : 2800 kg- trip fuel : 300 kg- traffic load : 400 kg- maximum take-off mass : 4200 kg- maximum landing mass : 3700 kg

- a) 700 kg
- b) 1000 kg
- c) 500 kg
- d) 800 kg

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05. Which of the following lists the order of available selections on the Mode Selector switches of a 737-400 Inertial Reference System?

- a) 1153
- b) 1203
- c) After flying 150 NM along track from 'A', the aircraft is 2 MIN behind planned time. Using the actual GS experienced, what is the revised ETA at 'B'? 1153 1203 1157
- d) 1206

06. The maximum acceptable cruising altitude is limited by a minimum acceptable loadfactor because exceeding that altitude:

- a) Turbulence may exceed the limit load factor.
- b) Turbulence may induce Mach buffet.
- c) Mach buffet will occur immediately.
- d) A sudden necessary bankangle may exceed the limit load factor.

07. The TCAS II has inputs from the radio altimeter in order to:

- a) Determine the relative height of the intruder.
- b) Stop the TCAS operation below 2.500 ft AGL.
- c) Gradually inhibit the resolution advisories (RAs) when getting closer to the ground.
- d) To alert the crew from a dangerous proximity of the ground.

08. The advantages of fly-by-wire control are 1. reduction of the electric and hydraulic power required to operate the control surfaces2. lesser sensitivity to lightning strike3. direct and indirect weight saving through simplification of systems4. immunity to different interfering signals5. 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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09. A descent is planned from 7500 ft AMSL so as to arrive at 1000 ft AMSL 6 NM from a VORTAC. With a GS of 156 kts and a rate of descent of 800 ft/min. The distance from the VORTAC when descent is started is:

- a) 15,0 NM
- b) 27,1 NM
- c) With a GS of 156 kts and a rate of descent of 800 ft/min. The distance from the VORTAC when descent is started is: 15,0 NM 27,1 NM 30,2 NM
- d) 11,7 NM

10. What does QDM mean?

- a) Magnetic bearing from the station
- b) Magnetic heading to the station (no wind)
- c) True bearing from the station
- d) True heading to the station (no wind)

11. 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]

12. What conditions are most likely to lead to the formation of hill fog?

- a) High relative humidity and an unstable air mass.
- b) Clear skies, calm or light winds, with relatively low humidity.
- c) Humid stable air mass, wind blowing towards the hills.
- d) Precipitation which is lifted by the action of moderate winds striking the range.

13. Select the correct phonetic letter code for HB-FRO:

- a) Hotel Bravo Fox Romeo Oscar
- b) Hotel Bravo Foxtrot Romeo Oscar
- c) Hotel Brazil Foxtrot Romeo Oscar
- d) Hotel Bravo Foxtrot Romeo Oswald

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14. In case of engine failure during flight the blades of a constant speed propeller in a single engine aeroplane, not fitted with feathering system

- a) Move In Low Pitch Position By Oil Pressure Created By The Windmilling Propeller.
- b) Move in the lowest pitch position by the centrifugal force and/or the spring force .
- c) Move in the highest pitch position by the aerodynamic force.
- d) Move In A Certain Pitch Position Depending On Windmilling Rpm.

15. The parameter that determines the relationship between EAS and TAS is:

- a) Pressure altitude.
- b) Mach number.
- c) OAT.
- d) Density altitude.

16. Which statement concerning the inclusion of a clearway in take-off calculation is correct?

- a) The field length limited take-off mass will increase
- b) V1 remains constant
- c) V1 is increased
- d) The usable length of the clearway is not limited

17. Why is hypoxia especially dangerous for pilots flying solo?

- a) In a multi-crew cockpit hypoxia will always be detectable.
- b) Only a solo pilot is more prone to illusions.
- c) Hypoxia improves night vision therefore the pilot will have no indication of danger.
- d) Since the first signs of hypoxia are generally hard to detect.

18. 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

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19. In VMC, a runway should not be chosen as preferential for noise abatement procedures when:

- a) Cross-wind component, including gusts, is 10 kt or less
- b) It has no ILS or visual approach slope guidance
- c) Tail wind component, including gusts, is less than 4 kt
- d) It has a tail wind regardless its magnitude

20. An aircraft station fails to establish radio contact with an aeronautical station on the designated frequency. What action is required by the pilot:

- a) Return to the airport of departure
- b) Continue the flight to the destination airport without any communication
- c) Land at the nearest airport without an ATC unit
- d) Attempt to establish contact with the station on an alternative frequency

21. 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.

22. What does the word 'report' mean?

- a) Pass me the following information
- b) Examine a system or procedure
- c) Say again
- d) Repeat all of this message back to me exactly as received

23. What does the word 'correct' mean?

- a) That is correct
- b) Negative, the correct version is ...
- c) Permission for proposed action not granted
- d) An error has been made in this transmission. The correct version is ...

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24. The position of a Flight Director command bars:

- a) Repeats the ADI and HSI information
- b) Enables the measurement of deviation from a given position.
- c) Indicates the manoeuvres to execute, to achieve or maintain a flight situation.
- d) Only displays information relating to radio-electric deviation.

25. What is the meaning of the phrase 'Radar service terminated'?

- a) ATC wants you to reset transponder
- b) ATC wants you to continue VFR
- c) You are now leaving the Terminal Area
- d) You will no longer be provided with radar control

26. A runway is contaminated by a 0.5 cm layer of wet snow. The take-off is nevertheless authorized by a light-twin's flight manual. The take-off distance in relation to a dry runway will be:

- a) Unchanged
- b) Decreased
- c) Increased
- d) Very significantly decreased

27. Arriving at the point of entry into MNPS (Minimum Navigation Performance Specification) airspace (except Shanwick Oceanic) and not having yet received the oceanic clearance, the crew:

- a) Carries out a holding pattern
- b) Returns to base immediately
- c) Keeps flying deviating its course by 30 nautical miles from that of the current flight plan
- d) Keeps flying in accordance with the current flight plan

28. Which of the following cloud types can project up into the stratosphere?

- a) Cirrostratus
- b) Cumulonimbus
- c) Altostratus
- d) Altocumulus

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29. 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 (GNSS/GPS) to carry out independent three dimensional operation, Receiver Autonomous Integrity Monitoring (RAIM) and to isolate any faulty satellite and remove it from contributing to the navigation solution. The number of satellites is:

- a) 4
- b) 7
- c) 5
- d) Performance database

30. A strong, dry and warm downslope wind, produced by prior enforced ascent of air over hills or mountains is known as a

- a) Scirocco
- b) Foehn
- c) Bora
- d) Mistral

31. Excessive exposure to noise can damage:

- a) The ossicles
- b) The semi circular canals
- c) The eardrum
- d) The sensitive membrane in the cochlea

32. When an aircraft station receives the call 'ALL STATIONS Stephenville RADAR, stop transmitting MAYDAY' it is requested:

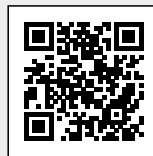
- a) Not to interfere with the distress communication.
- b) To leave the frequency in use.
- c) To assist Stephenville RADAR in handling the distress traffic.
- d) To continue normal communication on the frequency in use.

33. Factors liable to affect most NDB/ADF system performance and reliability include:

- a) Static interference - night effect - absence of failure warning system
- b) Coastal refraction - lane slip - mountain effect
- c) Height error - station interference - mountain effect
- d) Static interference - station interference - latitude error

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34. In a pressurized transport aircraft, the protective breathing equipment:

- a) Gives Medical Assistance To Certain Passengers With Respiratory Disorders.
- b) Protects all the occupants against the effects of accidental depressurization.
- c) Protects the members of the crew against smokes and noxious gases.
- d) Protects The Members Of The Crew Against The Effects Of Accidental Depressurization.

35. In a compensated capacitance type quantity indicating system, the contents gauge of a half- full fuel tank indicates a fuel mass of 8000 lbf a temperature rise increased the volume of fuel by 5%, the indicated fuel weight would:

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

36. Aircraft X-BC has been instructed to contact Stephenville TOWER on frequency 118.7. What is the correct response to indicate that it will follow this instruction ?

- a) Will change to TOWER X-BC
- b) 118.7 X-BC
- c) Stephenville TOWER X-BC
- d) Changing over X-BC

37. 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

38. Visual perception of depth at close to medium distance is primarily due to:

- a) Binocular vision
- b) The high sensitivity of the retina
- c) Peripheral vision
- d) Interactions between cones and rods

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39. Given: maximum allowable take-off mass 64400 kg maximum landing mass 56200 kg maximum zero fuel mass 53000 kg dry operating mass 35500 kg estimated load 14500 kg estimated trip fuel 4900kg minimum take-off fuel 7400 kg Find the maximum allowable take-off fuel:

- a) 14400 kg
- b) 11400 kg
- c) 8600 kg
- d) 11100 kg

40. What is the consequence of a microphone button stuck on transmit (switched 'on')?

- a) None
- b) Other stations will have to use the 'words twice' technique
- c) The frequency can not be used by others
- d) Readability will improve for all stations

41. An aircraft at position 60°N 005°W tracks 090°(T) for 315 km. On completion of the flight the longitude will be:

- a) 000°40'E
- b) 000°15'E
- c) 002°10'W
- d) 005°15'E

42. What does the phrase 'Read back' mean:

- a) Repeat all, or the specified part, of this message back to me exactly as received
- b) Check and confirm with originator
- c) Did you correctly receive this message?
- d) Let me know that you have received and understood this message

43. What does the term 'air-ground communication' mean?

- a) One-way communication from aircraft to stations or locations on the surface of the earth
- b) One-way communication from stations or locations on the surface of the earth
- c) Two-way communication between aircraft and stations or locations on the surface of the earth
- d) Any communication from aircraft to ground station requiring handling by the Aeronautical Fixed Telecommunication Network (AFTN)

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44. The maximum zero fuel mass is a mass limitation for the:

- a) Strength of the fuselage
- b) Strength of the wing root
- c) Total load of the fuel imposed upon the wing
- d) Allowable load exerted upon the wing considering a margin for fuel tanking

45. What will be the effect on the reading of an altimeter of an aircraft parked on the ground during the period following the passage of an active cold front?

- a) It will have increased
- b) It will remain unchanged
- c) It will show a small increase or decrease
- d) It will have decreased

46. A DME is located at MSL. An aircraft passing vertically above the station at flight level FL 360 will obtain a DME range of approximately:

- a) 11 NM
- b) 7 NM
- c) 8 NM
- d) Altostratus

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

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

48. The aeroplane drag in straight and level flight is lowest when the:

- a) Induced drag is equal to zero
- b) Parasite drag equals twice the induced drag
- c) Induced drag is lowest
- d) Parasite drag is equal to the induced drag

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49. Given: True HDG = 074°, TAS = 230 kt, Track (T) = 066°, GS = 242 kt. Calculate the W/V?

- a) 185/35kt
- b) 180/30kt
- c) 180/40kt
- d) 180/35kt

50. Given: Maximum structural take-off mass: 7400 kg Maximum structural landing mass: 7400 kg Zero Fuel Mass: 5990 kg Taxi Fuel: 15 kg Contingency Fuel: 110 kg Alternate Fuel: 275 kg Final Reserve Fuel: 250 kg Trip Fuel: 760 kg The expected Landing Mass at destination will be:

- a) 7385 kg
- b) 7400 kg
- c) 6625 kg
- d) 7135 kg

51. What is the correct term for the descending air flow in a large high pressure area?

- a) Advection.
- b) Convergence.
- c) Convection.
- d) Subsidence.

52. When flying through a thunderstorm with lightning you can protect yourself from flashblindness by: a) turning up the intensity of cockpit lights b) looking inside the cockpit c) wearing sunglasses d) using face blinds or face curtains when installed

- a) A) and b) are correct, c) and d) are false
- b) A), b) and c) are correct, d) is false
- c) C) and d) are correct, a) and b) are false
- d) A), b), c) and d) are correct

53. From the Loading Manual for the transport aeroplane, the maximum load that can be carried in that section of the aft cargo compartment which has a balance arm centroid at:

- a) 835.5 inches is 6752 kg
- b) 835.5 inches is 3062 kg
- c) 421.5 inches is 2059 lbs
- d) 421.5 inches is 4541 kg

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54. What should be usually done to perform a landing with the stabilizer jammed in the cruise flight position ?

- a) Choose a lower landing speed than normal.
- b) If possible, relocate as many passengers as possible to the front of the cabin.
- c) Choose a higher landing speed than normal and/or use a lower flap setting for landing.
- d) Use the Mach trimmer until after landing.

55. When has the centre of gravity to be computed?

- a) At least every four years
- b) After every 400-hrs inspection
- c) During every yearly inspection
- d) Prior to every flight

56. Refer to the Jeppesen General Student Pilot Route Manual - VFR Chart ED-4 Flying 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°

57. The stall speed (IAS) will change according to the following factors:

- a) May increase with altitude, especially high altitude, will increase during icing conditions and will increase when the cg moves forward
- b) Will increase with increased load factor, more flaps and increased bank angle in a turn
- c) Will increase in a turn, higher temperature and will increase when the cg moves aft
- d) May increase when the cg moves forward, with higher altitude and due to the slipstream from a propeller on an engine located forward of the wing

58. In a steep turn, the northerly turning error on a magnetic compass on the northern hemisphere is:

- a) None on a 270° heading in a left turn.
- b) None on a 090° heading in a right turn.
- c) Equal to 180° on a 090° heading in a right turn.
- d) Equal to 180° on a 270° heading in a right turn.

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59. An aircraft leaves point P (60N 030W) on a true heading equal to 090 while the gyro compass, which is assumed to be operating perfectly and without an hourly rate corrector unit, indicates 000. The aircraft arrives at point Q (62N 010W) on a true heading equal to 095. On the journey from P to Q the gyro compass remains in free gyro mode. If the flight lasted 1 h 30 min, the gyro heading at Q will be:

- a) 328
- b) 334
- c) 003
- d) 345

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

- a) Figure 1
- b) Figure 6
- c) Figure 5
- d) Radio communication failure

61. What does the instruction 'Orbit right' mean ?

- a) Turn right to avoid other traffic
- b) Make 360° turns to the right
- c) Leave the runway to the right
- d) Right-hand circuits are in use

62. What is the Q-code for 'true bearing from the station'?

- a) QDM
- b) QDR
- c) QFE
- d) QTE

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

- a) Indicates A Faulty Reverse Current Relay.
- b) Would be normal and is only cause for concern if the high charge rate persists.
- c) Indicates a generator failure, thus requiring the engine to be shut down immediately.
- d) Indicates A Battery Failure Since There Should Be No Immediate Charging.

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64. A Lambert's conical conformal chart has standard parallels at 63°N and 41°N. What is the constant of the cone?

- a) 0,707
- b) 0,891
- c) 0,656
- d) 0,788

65. The equatorial easterly jet is a jet stream that occurs:

- a) Only in the winter of the northern hemisphere at approximately 30000'
- b) Only in the summer of the northern hemisphere at approximately 45000'
- c) During the whole year in the northern hemisphere
- d) During the whole year in the southern hemisphere

66. An aircraft flying at FL 45 (OAT 6°C) obtains a reading of 1860 ft on its radio altimeter (ground elevation 3090 ft). What is the value of the QNH, to the nearest hPa, at that point?

- a) 1030
- b) 1042
- c) 1013
- d) 996

67. What is a VDF referenced to?

- a) Magnetic north at the aircraft
- b) True north at the aircraft
- c) Magnetic north at the station
- d) Relative bearing to the aircraft

68. 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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69. 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

70. When suffering from Hypoxia short-term memory impairment starts at approximately at:

- a) 10,000 ft
- b) 18,000 ft
- c) 12,000 ft
- d) 25,000 ft

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Schema Risposte

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

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