

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. The fire extinguisher types which may be used on class B fires are: 1 - H₂O₂ - CO₂ 3 - dry-chemical 4 - halon
Which of the following combinations contains all of the correct statements?

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

02. Autokinetic illusion is:

- a) The sensation during a radial acceleration of seeing a fixed reference point moving into the opposite direction of the acceleration
- b) An illusion in which a stationary point of light, if stared at for several seconds in the dark, may - without a frame of reference - appear to move
- c) Poor interpretation of the surrounding world
- d) A conflict between the visual system and bodily sensations

03. Refer to the Student Pilot Route Manual - 5 AT (HI) The initial great circle course from position A (80°00'N 170°00'E) to position B (75°00'N 011°E) is 177° (G). The final grid course at position B will be:

- a) 172° (G)
- b) 194° (G)
- c) 353° (G)
- d) 177° (G)

04. Is there any difference between the vertical speed versus forward speed curves for two identical aeroplanes having different masses ? (assume zero thrust and wind)

- a) Yes, the difference is that the heavier aeroplane will always glide a greater distance.
- b) No difference.
- c) Yes, the difference is that the lighter aeroplane will always glide a greater distance.
- d) Yes, the difference is that for a given angle of attack both the vertical and forward speeds of the heavier aeroplane will be larger.

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05. An aircraft in distress shall send the following signal by radiotelephony:

- a) PAN PAN, PAN PAN, PAN PAN
- b) DETRESFA, DETRESFA, DETRESFA
- c) URGENCY, URGENCY, URGENCY
- d) MAYDAY, MAYDAY, MAYDAY

06. Item 9 of the ATC flight plan includes 'NUMBER AND TYPE OF AIRCRAFT'. In this case 'NUMBER' means:

- a) The registration number of the aircraft
- b) The number of aircraft which will separately be using a repetitive flight plan (RPL)
- c) The number of aircraft flying in a group
- d) The ICAO type designator number as set out in ICAO Doc 8643

07. The lowest cloud conditions (oktas/ft) at BORDEAUX/MERIGNAC at 1330 UTC were

- a) 1 to 4 at 3000
- b) 3 to 4 at 2000
- c) 1 to 2 at 3000
- d) 3 to 4 at 800[see Annex]

08. A body is placed in a certain airstream. The density of the airstream decreases to half of the original value. The aerodynamic drag will decrease with a factor:

- a) 8
- b) 4
- c) 1.4
- d) 2

09. Given: Distance from departure to destination 150 NM True track 142W/V 200/15TAS 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

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10. On a symmetrical aerofoil, the pitching moment for which $CL = 0$ is:

- a) Equal to the moment coefficient for stabilized angle of attack
- b) Zero
- c) Negative (pitch-down)
- d) Positive (pitch-up)

11. The maximum wind velocity ($^{\circ}/kt$) shown in the vicinity of MUNICH ($48^{\circ}N$ $012^{\circ}E$) is:

- a) 300/100
- b) 300/140
- c) 290/110
- d) 300/160

12. A message concerning an aircraft being threatened by grave and imminent danger, requiring immediate assistance is called:

- a) Flight safety message.
- b) Distress message.
- c) Class B message.
- d) Urgency message.

13. 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

14. The convention on offences and certain acts committed on board aircraft, is:

- a) The convention of Tokyo
- b) The convention of Chicago
- c) The convention of Rome
- d) The convention of Paris

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15. Which of the following statements is correct?

- a) If the actual centre of gravity is located behind the aft limit of centre of gravity it is possible that the aeroplane will be unstable, making it necessary to increase elevator forces
- b) A tail heavy aeroplane is less stable and stalls at a lower speed than a nose heavy aeroplane
- c) The lowest stalling speed is obtained if the actual centre of gravity is located in the middle between the aft and forward limit of centre of gravity
- d) If the actual centre of gravity is close to the forward limit of the centre of gravity the aeroplane may be unstable, making it necessary to increase elevator forces

16. Avoidance of collisionsThe highest priority for landing has:

- a) An aircraft that is compelled to land (Emergency landing).
- b) An Air Ambulance carrying a very sick person needing immediate medical attention.
- c) An aircraft on a diplomatic flight (Head of state).
- d) A military aircraft.

17. The function of a constant speed drive (CSD) in an AC generating system is to:

- a) Directly Maintain A Constant Proportion Between The Rpm Of An Engine And A Generator.
- b) Vary generator rpm in order to compensate for various AC loads.
- c) Vary the engine rpm (within limits) to compensate for various AC loads.
- d) Drive the generator at a constant speed.

18. On the readability scale what does READABILITY 1 mean?

- a) Readable but with difficulty.
- b) Unreadable.
- c) Readable.
- d) Perfectly readable.

19. The spin axis of the turn indicator gyro is aligned along the:

- a) Lateral axis of the aircraft.
- b) Longitudinal axis of flight.
- c) Vertical axis of the aircraft.
- d) Longitudinal axis of the aircraft.

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20. The maximum operating altitude for a certain aeroplane with a pressurised cabin

- a) Is dependent on aerodynamic ceiling.
- b) Is the highest pressure altitude certified for normal operation.
- c) Is only certified for four-engine aeroplanes.
- d) Is dependent on the OAT.

21. Electrical requirements for an alumel / chromel indicating system are

- a) 3 phase AC for sensor plus 28V DC for gauging
- b) Power for gauge lighting only
- c) 28V DC for sensor plus power for gauge lighting
- d) 3 phase AC for sensor plus 26V AC for gauge lighting

22. For a particular aeroplane, the structural maximum mass without any fuel on board, other than unusable quantities, is:

- a) A variable value which is governed by the payload carried.
- b) A fixed value which is stated in the Aeroplane Operating Manual.
- c) A fixed value which will limit the amount of fuel carried.
- d) A variable value which may limit the payload carried.

23. The purpose of the first aid oxygen is to:

- a) Provide undiluted oxygen to passengers for physiological reasons following a cabin depressurisation.
- b) Provide the flight crew with respiratory assistance after depressurization.
- c) Supply all the passengers in case of depressurization.
- d) Provide the cabin attendants with respiratory protection.

24. Traffic load is the difference between:

- a) The operating mass and the basic empty mass.
- b) The take-off mass and the basic empty mass.
- c) The take-off mass and the basic empty mass plus trip fuel.
- d) The take-off mass and the operating mass.

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25. When transmitting runway visual range (RVR) for runway 16 ATC should use the following phrase:

- a) RVR runway 16 touchdown ... metres, mid-point ... metres, stop end ... metres
- b) RVR runway 16 ... metres diagonal ... metres diagonal ... metres
- c) RVR at the beginning of runway 16 is ... metres
- d) The values of the transmissometer are: ... metres and ... metres

26. An aeroplane must be re-weighed at certain intervals. Where an operator uses 'fleet masses' and provided that changes have been correctly documented, this interval is

- a) 9 years for each aeroplane.
- b) Whenever a major modification is carried out.
- c) Whenever the Certificate of Airworthiness is renewed.
- d) 4 years for each aeroplane.

27. When the term 'CAVOK' is used in an aviation routine weather report (METAR), the values of visibility and clouds are:

- a) Visibility 10 km or more, no clouds below 5000 feet/GND
- b) Visibility more than 5000 m, no clouds below 1500 m/GND
- c) Visibility more than 8 km, no clouds below 3000 feet/GND
- d) Visibility 10 km or more, no clouds below 1500 feet/GND

28. Wake turbulence should be taken into account when:

- a) A preceding aeroplane has performed low altitude high roll rate rolling manoeuvres over the runway.
- b) A much heavier aeroplane has landed just previously on the same runway, a light crosswind condition exist and all high-lift devices are being used.
- c) During cruise the vertical separation is reduced to 1.000 ft.
- d) Just before the landing a much lighter aeroplane has landed with a strong crosswind on a long runway.

29. Sound propagates through the air at a speed which only depends on:

- a) Temperature and the pressure.
- b) Temperature.
- c) Density.
- d) Pressure.

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30. Dangerous stall characteristics, in large transport aeroplanes that require stick pushers to be installed, include:

- a) Pitch down and yaw
- b) Distinct aerodynamic buffet
- c) Excessive wing drop and deep stall
- d) Pitch down and increase in speed

31. The distance measured between two points on a navigation map is 42 mm (millimetres). The scale of the chart is 1:1 600 000. The actual distance between these two points is approximately:

- a) 36.30 NM
- b) 3.69 NM
- c) 67.20 NM
- d) 370.00 NM

32. Define hypoxia and explain why living tissues require oxygen.

- a) Hypoxia is the lack of sufficient oxygen to meet the needs of the body tissues which require oxygen to fight infection or invading bacteria.
- b) Hypoxia is the lack of sufficient oxygen to meet the needs of the body tissues which require oxygen to coagulate the blood in case of infection.
- c) Hypoxia is the lack of sufficient oxygen to meet the needs of the body tissues which require carbon dioxide for metabolism.
- d) Hypoxia is the lack of sufficient oxygen to meet the needs of the body tissues which require oxygen for oxidation of carbohydrates from food to produce energy.

33. To achieve control flutter damping the balance mass must be located:

- a) Directly Below The Control Surface Hinge.
- b) In front of the control surface hinge.
- c) Behind The Control Surface Hinge.
- d) Directly Above The Control Surface Hinge.

34. In case of a SSR transponder failure occurring after departure of an IFR flight, the pilot shall:

- a) Inform the current ATC unit immediately
- b) Continue the flight in VMC
- c) Squawk 7600
- d) Land at the nearest suitable aerodrome for repair

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35. When shall the pilot of an aircraft experiencing communications failure keep a watch for instructions passed by visual signals ?

- a) When flying VFR above clouds
- b) When the aircraft is forming part of the aerodrome traffic at a controlled aerodrome
- c) When entering a FIR during an IFR flight
- d) When the aircraft is entering the traffic pattern of an uncontrolled airport

36. When a pilot fills in an ATC flight plan, he must indicate the wake turbulence category. This category is a function of which mass?

- a) Estimated take-off mass
- b) Maximum certified landing mass
- c) Maximum certified take-off mass
- d) Actual take-off mass

37. Within the European Region, an aircraft experiencing radio communication failure on an IFR departure has to squawk 7600 and:

- a) Climb immediately to the cruising level indicated in the flight plan
- b) Land at the departure aerodrome in any case
- c) Maintain the level last assigned by the ATC for a period of 3 minutes and then climb in accordance with the flight plan
- d) Maintain the altitude last assigned by ATC for a period of 5 minutes and then continue in accordance with the flight plan

38. 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.

39. What is the Q-code for 'magnetic heading to the station (no wind)?'

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

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40. Flight data recorders must keep the data and parameters recorded during at least the last:

- a) 30 hours of operation.
- b) Flight.
- c) 25 hours of operation.
- d) 48 hours of operation.

41. An aircraft is flying on the true track 090° towards a VOR station located near the equator where the magnetic variation is 15°E. The variation at the aircraft position is 8°E. The aircraft is on VOR radial:

- a) 278°
- b) 262°
- c) 255°
- d) 285°

42. In order to reduce the risk of coronary artery disease, exercise should:

- a) Be avoided since raising the heart rate shortens the life of the heart
- b) Double the resting heart rate for at least 20 minutes, three times a week
- c) Triple the resting heart rate for 20 minutes, once a week
- d) Double the resting heart rate for at least an hour, five times a week

43. On overwater flights, an operator shall not operate an aeroplane, with 2 or more engines, unless carrying additional life saving equipment, at a distance away from land which is suitable for making an emergency landing, greater than that corresponding to:

- a) 200 NM or 45 minutes at cruising speed.
- b) 300 NM or 90 minutes at cruising speed.
- c) 100 NM or 30 minutes at cruising speed.
- d) 400 NM or 120 minutes at cruising speed.

44. Which is the maximum distance at which you might expect solid VHF contact over flat terrain at flight level 100:

- a) About 120 NM
- b) About 12 NM
- c) About 30 NM
- d) About 300 NM

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45. Which of the following list may stress effect? 1. Attention 2. Concentration 3. Memory 4. Judgment

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

46. The disadvantages of axial flow compressors compared to centrifugal flow compressors are 1 - expensive to manufacture 2 - limited airflow 3 - greater vulnerability to foreign object damage 4 - limited compression ratio The combination of correct answers is:

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

47. What lowest cloud conditions (oktas/ft) are forecast for JOHANNESBURG/JAN SMUTS at 0300 UTC?

- a) 5 to 7 at 400
- b) 3 to 4 at 400
- c) 5 to 7 at 800
- d) 3 to 4 at 800[see Annex]

48. Engine temperature limitations of a gas turbine engine are usually imposed due to temperature limitations on the:

- a) Compressor Section.
- b) Casing of the combustion chamber.
- c) Jet pipe.
- d) Turbine section.

49. Which of the following physical stimuli may cause stress reactions? -1: noise.-2: conflict.-3: temperature.-4: an administrative problem.-5: hunger. The combination of correct statements is:

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

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50. On a pressurised aeroplane, supplemental oxygen is used to:

- a) Provide with oxygen passengers who might require it, following a cabin depressurisation
- b) Protect an aircrew who fights a fire
- c) Assist a passenger with breathing disorders
- d) Provide people on board with oxygen during a cabin depressurisation

51. During a flight the fuel indicators show that the remaining amount of fuel is 100 lbs after 38 minutes. The total amount of fuel at departure was 160 lbs. For the alternate fuel, 30 lbs is necessary. The planned fuel for taxi is 13 lbs. Final reserve fuel is estimated at 50 lbs. If the fuel flow remains the same, how many minutes can be flown to the destination with the remaining fuel?

- a) 12 minutes.
- b) 4 minutes.
- c) 44 minutes.
- d) 63 minutes.

52. Concerning the TCAS (Traffic Collision Avoidance System):

- a) In one of the system modes, the warning: 'PULL UP' is generated
- b) In one of the system modes, the warning: 'TOO LOW TERRAIN' is generated
- c) Resolution Advisory (RA) must not be followed without obtaining clearance from ATC
- d) No protection is available against aircraft not equipped with a serviceable SSR transponder

53. The (operator) proficiency check of a pilot took place the 15th of April. The validity of the previous proficiency check was the 30th of June. The period of the new proficiency check can be and can't exceed:

- a) 31st of December the same year
- b) 30th of April the following year
- c) 30th of October the same year
- d) 15th of October the same year

54. In order to perceive colour vision, it is necessary:-1: for there to be sufficient amount of light (ambient luminosity)-2: at night to look at the point to be observed at an angle of 15°-3: to allow the eye a period of time to get used to the light-4: to avoid white light

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

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55. On a chart, the distance along a meridian between latitudes 45°N and 46°N is 6 cm. The scale of the chart is approximately:

- a) 1: 1 000 000
- b) 1: 1 850 000
- c) 1: 18 500 000
- d) 1: 185 000

56. The critical angle of attack:

- a) Increases if the CG is moved forward
- b) Remains unchanged regardless of gross weight
- c) Changes with an increase in gross weight
- d) Decreases if the CG is moved aft

57. An aeroplane, which is scheduled to fly an oceanic sector, is due to depart from a high altitude airport in the tropics at 1400 local time. The airport has an exceptionally long runway. Which of the following is most likely to be the limiting factor(s) in determining the take - off mass ?

- a) Maximum zero fuel mass.
- b) Altitude and temperature of the departure airfield.
- c) En route obstacle clearance requirements.
- d) Maximum certificated take - off mass.

58. In an ATC flight plan, Item 15 (route), a cruising pressure altitude of 32000 feet would be entered as:

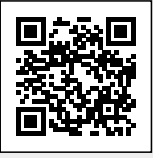
- a) S3200
- b) FL320
- c) 32000
- d) F320

59. Large hail stones

- a) Only occur in thunderstorms of mid-latitudes
- b) Are typically associated with severe thunderstorms
- c) Only occur in frontal thunderstorms
- d) Are entirely composed of clear ice

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60. The tangent from the origin to the power required against true airspeed curve, for a jet aeroplane, determines the speed for:

- a) Maximum endurance
- b) Critical angle of attack
- c) Maximum specific range
- d) Minimum power

61. 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

62. Torsion in a wing can be caused by:

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

63. In relation to the net take-off flight path, the required 35 ft vertical distance to clear all obstacles is:

- a) Based on pressure altitudes
- b) The minimum vertical distance between the lowest part of the aeroplane and all obstacles within the obstacle domain
- c) The height at which power is reduced to maximum climb thrust
- d) The height by which acceleration and flap retraction should be completed

64. Given: GS = 480 kt.Distance from A to B = 5360 NM. What is the time from A to B?

- a) 11 HR 07 MIN
- b) 11 HR 06 MIN
- c) 11 HR 15 MIN
- d) 11 HR 10 MIN

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65. The fuel tanks of aircrafts must be checked for water

- a) Immediately After Every Refuelling.
- b) During refuelling.
- c) Before the first flight of the day or after a long turnaround time.
- d) Before Each Flight.

66. The message to an aeronautical ground station 'please call a taxi-cab for us. We will arrive at 1045' is:

- a) A flight regularity message.
- b) A flight safety messages.
- c) An unauthorized message.
- d) An urgency message.

67. Among the systematic errors of the 'directional gyro', the error due to the earth rotation make the north reference turn in the horizontal plane. At a mean latitude of 45°N, this reference turns by...

- a) 7.5°/hour to the right.
- b) 15°/hour to the right.
- c) 7.5°/hour to the left.
- d) 10.5°/hour to the right.

68. 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.

69. 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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70. The magnetic heading can be derived from the true heading by means of a:

- a) Map showing the isoclinic lines
- b) Deviation correction curve
- c) Map showing the isogonal lines
- d) Compass swinging curve

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Schema Risposte

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

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