

Simulazione di Esame

IFR Communications - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. What does the phrase 'Go ahead' mean:

- a) Proceed with your message
- b) Yes
- c) Pass me the following information...
- d) Taxi on

02. Which of the following operations are performed more effectively by automatic systems than by people ?1. Waiting for an infrequent phenomenon2. Long term controlling of a set value (e.g holding of trajectory)3. Monitoring to ensure that certain values are not exceeded (e.g. holding of flight path)4. Qualitative decision-making

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

03. The navigation plan reads: Trip fuel: 100 kgFlight time: 1h35min Taxi fuel: 3 kgBlock fuel: 181 kgThe endurance on the ICAO flight plan should read:

- a) 2h 49min
- b) 2h 52min
- c) 2h 04min
- d) 1h 35min

04. 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]

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05. 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

06. The lift of an aeroplane of weight W in a constant linear climb with a climb angle (γ) is approximately:

- a) $W (1 - \tan \gamma)$
- b) $W (1 - \sin \gamma)$
- c) $W / \cos \gamma$
- d) $W \cos \gamma$

07. Fastair 345 has been instructed 'Standby 118.9 for TOWER'. What does this instruction mean?

- a) Fastair 345 shall establish radio contact with TOWER on frequency 118.9
- b) Fastair 345 shall change to frequency 118.9 on which information is being broadcast
- c) Fastair 345 shall squawk standby and then establish radio contact with TOWER on frequency 118.9
- d) Fastair shall change to frequency 118.9 and listen out, but the TOWER will initiate further communications

08. The take-off mass of an aeroplane is 141000 kg. Total fuel on board is 63000 kg including 14000 kg reserve fuel and 1000 kg of unusable fuel. The traffic load is 12800 kg. The zero fuel mass is:

- a) 79000 kg
- b) 65200 kg.
- c) 93000 kg
- d) 78000 kg

09. Which combination of characteristics gives best screen picture in a primary search radar?

- a) Short pulse length and narrow beam
- b) Short pulse length and wide beam
- c) Long pulse length and narrow beam
- d) Long pulse length and wide beam

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10. The receiver aerial for a NAVSTAR/GPS system should be mounted:

- a) In the vicinity of the receiver to avoid long transmission lines
- b) Inside the tail fin to minimise the influence of reflections from the wing and fuselage
- c) Under the fuselage in order to receive correction data transmitted by D-GPS stations
- d) Only the 1575 MHz carrier wave and one code

11. Which of these phrases is used if you want to communicate that a message: 'Consider that transmission as not sent':

- a) Cancel my last message
- b) Disregard
- c) My last transmission is cancelled
- d) Forget it

12. The function of ribs in a wing is to:

- a) Withstand The Torsional Loads.
- b) Withstand all the structural loads.
- c) Give the wing the desired aerodynamic shape.
- d) Allow Installation Of Fuel Cells In The Wing.

13. When the wing skin is not able to carry loads, the structural elements of the wing, which carry the bending moment, are:

- a) The spars.
- b) The webs.
- c) The rivets.
- d) The Ribs.

14. Which is the correct sequence of speeds during take-off?

- a) VMCG, V1, VR, V2
- b) V1, VR, V2, VMCA
- c) V1, VR, VMCG, V2
- d) V1, VMCG, VR, V2

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15. 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

16. The radar controller suspects that you are experiencing unlawful interference. What should he do to confirm this with an auto decoder unit? (with no mode A interpretation?)

- a) Switch from 7500 to 7700.
- b) Switch from 7000 to 7500.
- c) Switch from 7600 to 7700.
- d) Switch from 7700 to STBY to test 7500.

17. Which of the following illusions are brought about by conflicts between the visual system and the vestibular system ?-1: Illusions concerning the attitude of the aircraft-2: Autokinetic illusion (fixed point viewed as moving)-3: Illusions when estimating the size and distance of objects-4: Illusions of rotation

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

18. On a TCAS2 (Traffic Collision Avoidance System), a corrective 'resolution advisory' (RA) is a 'resolution advisory':

- a) Asking the pilot to modify effectively the vertical speed of his aircraft.
- b) Asking the pilot to modify the speed of his aircraft.
- c) Asking the pilot to modify the heading of his aircraft.
- d) Which does not require any action from the pilot but on the contrary asks him not to modify his current vertical speed rate.

19. Refer to figure:Which figure in the appendix represents the geographic latitude of position P, which is situated above the surface of the ellipsoid?

- a) Figure
- b) Figure
- c) Figure
- d) Figure Figure

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20. The aircraft has started a descent. Select the correct radiotelephony transmission:

- a) LEAVING FL 200
- b) LEAVING LEVEL 200 FOR LEVEL 120
- c) LEAVING FL 200, DESCENDING TO FL 120
- d) STARTING DESCENT

21. Which one of the tracks (dashed lines) is represented by the cross-section shown on the left ?

- a) Track B-A
- b) Track C-A
- c) Track B-C
- d) Track D-A

22. Search and Rescue signalsThe ground - air visual code for: 'REQUIRE MEDICAL ASSISTANCE' is:

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

23. Holding procedures (outbound time)The outbound time in a holding pattern above 14000 ft in still air conditions is:

- a) 2 minutes.
- b) 1 minute.
- c) 2 minutes 30 seconds.
- d) 1 minute 30 seconds.

24. In case the transponder fails before the departure for an IFR flight, the pilot shall:

- a) Obtain prior permission by ATC to conduct the flight
- b) Inform ATC after departure
- c) Insert under item 18 of the flight plan 'transponder unserviceable'
- d) Inform FIS for relay to AIS

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25. With increasing angle of attack, the stagnation point will move (I) ...and the point of lowest pressure will move (II) ...Respectively (I) and (II) are:

- a) (I) down, (II) forward.
- b) (I) up, (II) forward.
- c) (I) down, (II) aft.
- d) (I) up, (II) aft.

26. Coaction is a mode of coordination which recommends:

- a) Sustained cooperation on actions and the formulation of commitments concerning flight situations
- b) Working parallel to achieve individual objectives
- c) The application of procedural knowledge in the conduct of specific actions
- d) Working in parallel to achieve one common objective

27. During a climb, the total pressure probe of the airspeed indicator becomes blocked

- a) If the pilot maintains a constant indicated airspeed, the true airspeed:
- b) Increases until reaching VMO.
- c) Decreases by 1% per 600 FT.
- d) Decreases until reaching the stall speed.

28. A class B fire is a fire of:

- a) Solid material usually of organic nature
- b) Electrical source fire
- c) Liquid or liquefiable solid
- d) Special fire: metal, gas, chemical product

29. On four-stroke piston engines, the theoretical valve and ignition settings are readjusted in order to increase the:

- a) Compression Ratio
- b) Piston displacement
- c) Overall efficiency
- d) Engine R.p.m.

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30. Which of the following Annexes to the Chicago convention contains minimum specifications for the design of aerodromes?

- a) Annex 14
- b) Annex 10
- c) Annex 11
- d) Annex 6

31. 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)

32. 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

33. To indicate a temperature, a thermocouple requires:

- a) Direct current
- b) Battery power
- c) Alternating current
- d) No power supply

34. A system providing information on Rules of the Air, Air Traffic Services and Air Navigation Procedures and distributed in advance of its effective date is known as:

- a) AIRA
- b) An Advisory NOTAM.
- c) An Advisory NOTAM. an ATS NOTAM.
- d) A NOTAM RA

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35. 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)

36. The aft movement of the centre of pressure during acceleration through the transonic range will:

- a) Decrease the longitudinal stability.
- b) Increase the static lateral stability.
- c) Increase the static longitudinal stability.
- d) Decrease the static lateral stability.

37. One negative aspect of the highly automated cockpit results in:

- a) Pilots disregarding the automatic equipment
- b) Complacency among the crewmembers
- c) Less experienced crews because of more transparent system details
- d) Constantly high crew overload with regard to the monitoring tasks

38. An NDB transmits a signal pattern in the horizontal plane which is:

- a) Omnidirectional
- b) A beam rotating at 30 Hz
- c) A cardioid balanced at 30 Hz
- d) Bi-lobal circular

39. Which of the following combinations is likely to result in the most accurate Area Navigation (RNAV) fixes?

- a) VOR/DME
- b) DME/DME
- c) VOR/VOR
- d) ETD

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40. A 'Balanced Field Length' is said to exist where:

- a) The clearway does not equal the stopway
- b) The accelerate stop distance is equal to the all engine take-off distance
- c) The accelerate stop distance is equal to the take-off distance available
- d) The one engine out take-off distance is equal to the all engine take-off distance

41. The maximum rate of climb that can be maintained at the absolute ceiling is:

- a) 0 fpm
- b) 100 fpm
- c) 500 fpm
- d) 125 fpm

42. On which of the following radar displays is it possible to get an indication of the shape, and to some extent the type, of the aircraft generating the return?

- a) Aerodrome Surveillance (approach) Radar
- b) Secondary Surveillance Radar (SSR)
- c) Airborne Weather Radar (AWR)
- d) The installation does not require to have a separate method (marker beacons or DME) to determine range

43. In the JAR OPS, a runway is considered damp when:

- a) Its surface is not dry, and when surface moisture does not give it a shiny appearance.
- b) It is covered with a film of water of less than 1 mm.
- c) It is covered with a film of water of less than 3 mm.
- d) Surface moisture gives it a shiny appearance.

44. Which statement regarding V1 is correct?

- a) V1 must not exceed VMCG
- b) V1 must not exceed VR
- c) The V1 correction for up-slope is negative
- d) When determining the V1, reverse thrust is only allowed to be taken into account on the remaining symmetric engines

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45. Which is true of the aircraft basic empty mass?

- a) It is a component of dry operating mass.
- b) It is the actual take-off mass, less traffic load.
- c) It is dry operating mass minus traffic load.
- d) It is dry operating mass minus fuel load.

46. The stability in a layer increases by advection of

- a) Cold air in the lower part
- b) Moist air in the lower part
- c) Dry air in the upper part
- d) Warm air in the lower part

47. What does the word 'disregard' mean?

- a) Consider that transmission as not sent
- b) Wait and I will call you
- c) Annul the previously transmitted clearance
- d) An error has been made in this transmission

48. The wind direction in a METAR is measured relative to:

- a) The 0-meridian.
- b) True North.
- c) Grid North.
- d) Magnetic North.

49. The 'Effective Performance Time' or 'Time of Useful Consciousness' after a decompression at 35 000 ft is:

- a) Approximately 3 minutes
- b) Between 30 and 60 seconds
- c) Less than 20 seconds
- d) Approximately 5 minutes

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

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

51. The speed V_2 is:

- a) The lowest airspeed required to retract flaps without stall problems
- b) That speed at which the PIC should decide to continue or not the take-off in the case of an engine failure
- c) The lowest safety airspeed at which the aeroplane is under control with aerodynamic surfaces in the case of an engine failure
- d) The take-off safety speed

52. Which of the following combinations adversely affects take-off and initial climb performance?

- a) High temperature and high relative humidity
- b) Low temperature and low relative humidity
- c) High temperature and low relative humidity
- d) Low temperature and high relative humidity

53. Air traffic services may require an aircraft to report position when flying east-west, south of 70°N between 5°W and 65°W , every:

- a) 10° of longitude.
- b) 15° of longitude.
- c) 20° of longitude.
- d) 5° of longitude.

54. The density altitude is:

- a) The pressure altitude corrected for the relative density prevailing at this point
- b) The temperature altitude corrected for the difference between the real temperature and the standard temperature
- c) The pressure altitude corrected for the density of air at this point
- d) The altitude of the standard atmosphere at which the density is equal to the actual density of the atmosphere

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55. In the mid-latitudes of the northern hemisphere the wind blows:

- a) Clockwise around anticyclones and cyclones.
- b) Clockwise around cyclones and anti-clockwise around anticyclones.
- c) Clockwise around anticyclones and anti-clockwise around cyclones.
- d) Direct from high to low pressure areas.

56. The velocity maximum operating (V.M.O.) is a speed expressed in:

- a) Equivalent airspeed (EAS).
- b) True airspeed (TAS).
- c) Calibrated airspeed (CAS).
- d) Computed airspeed (COAS).

57. If VOR bearing information is used beyond the published protection range, errors could be caused by:

- a) Sky wave interference from the same transmitter
- b) Noise from precipitation static exceeding the signal strength of the transmitter
- c) Sky wave interference from distant transmitters on the same frequency
- d) Interference from other NDBs, particularly at night

58. When should an aircraft in the heavy-wake-turbulence category include the word 'Heavy' immediately after its call sign e.g. Fastair 345 heavy?

- a) Never
- b) In the initial call to the aerodrome control tower and the approach control unit
- c) In all calls to the aerodrome tower and the approach control unit
- d) In all calls

59. You are flying at FL 200. Outside air temperature is -40°C, and the pressure at sea level is 1033 hPa. What is the true altitude?

- a) 20660 feet
- b) 19340 feet
- c) 18260 feet
- d) 21740 feet

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60. At what approximate height above the WGS-84 ellipsoid are NAVSTAR/GPS satellites circling the earth?

- a) 10900 km
- b) 20200 km
- c) 19500 km
- d) 18

61. With the SSR transponder selected ON and "ALT" (Mode C) selected, an ATSU requests: "G-ABCD, Verify your level," this is to:

- a) Identify the aircraft position.
- b) Calibrate the radar equipment.
- c) Verify the accuracy of the Mode C level information displayed to the controller.
- d) Check your altimeter setting.

62. Isolated thunderstorms of a local nature are generally caused by

- a) Frontal lifting (warm front).
- b) Thermal triggering.
- c) Frontal occlusion.
- d) Frontal lifting (cold front).

63. General provisions - amended clearancelf an ATC clearance is not suitable to the pilot-in-command of an aircraft

- a) The PIC has to accept the ATC clearance. The clearance is based on the flight plan filed with AT
- b) The PIC may propose another clearance. ATC has to amend the clearance in accordance with the pilots request.
- c) The PIC may propose another clearance. ATC has to amend the clearance in accordance with the pilots request. The PIC may request an amended clearance from the AT Amended clearances will only be given when VMC prevails.
- d) The PIC may request and, if practicable, obtain an amended clearance.

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64. An aircraft operating within MNPS Airspace is unable to continue flight in accordance with its air traffic control clearance, but is able to maintain its assigned level, and due to a total loss of communications capability, cannot obtain a revised clearance from ATC. The aircraft should leave its assigned route or track by turning 90° (90 degrees) to the right or left whenever this is possible, and turn to acquire and maintain in either direction a track laterally separated by 30 NM from its assigned route and climb 1 000 ft or descend 500 ft, if:

- a) Above FL 410
- b) At FL410
- c) The aircraft should leave its assigned route or track by turning 90° (90 degrees) to the right or left whenever this is possible, and turn to acquire and maintain in either direction a track laterally separated by 30 NM from its assigned route and climb 1 000 ft or descend 500 ft, if: above FL 410 at FL410 at FL 430
- d) Below FL 410

65. The accumulation of frost, snow or ice on an aeroplane in flight induces an increase in the:

- a) Value of the stall angle of attack
- b) Stalling speed
- c) Roll rate
- d) Tuck under

66. Which of the following statements with regard to the actual acceleration height at the beginning of the 3rd climb segment is correct?

- a) A lower height than 400 ft is allowed in special circumstances e.g. noise abatement
- b) The minimum value according to regulations is 1000'
- c) The minimum value according to regulations is 400'
- d) There is no legal minimum value, because this will be determined from case to case during the calculation of the net flight path

67. 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.

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68. When requested by an Authority to produce the aircraft documentation required to be carried on board, the commander:

- a) Shall comply within a reasonable period of time.
- b) Shall only comply if authorised by the operator.
- c) Can refuse to present them.
- d) Can request a delay of 48 hours.

69. Separation - VMC and own separationThe 'Clearance to fly maintaining own separation while in visual meteorological conditions' may be given by the appropriate ATS authority. This has to be requested by the pilot of a controlled flight and has to be agreed by the pilot of the other aircraft. The conditions are:

- a) Airspace Class D and E, VMC, hours of daylight
- b) Airspace Class C, D and E, VMC
- c) Airspace Class C, D, VMC
- d) Airspace Class C, VMC, hours of daylight

70. What does the instruction 'Fastair 345 recycle 1240' mean?

- a) Fastair 345 is requested to set new code 1240
- b) Fastair 345 is requested to reselect assigned mode and code 1240
- c) RADAR instructs Fastair 345 to stop squawk 1240 immediately
- d) RADAR informs Fastair 345 that radar service is terminated at time 1240

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Schema Risposte

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

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