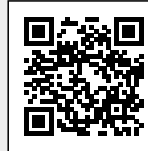


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NOME ALLIEVO:

DATA & ORA:

01. What is the radiotelephony call sign for the aeronautical station indicating approach control radar departures?

- a) ...CONTROL
- b) ...RADAR
- c) ...DEPARTURE
- d) ...APPROACH

02. Given: TAS = 125 kt, True HDG = 355°, W/V = 320°(T)/30kt. Calculate the true track and GS?

- a) 345 - 100 kt
- b) 005 - 102 kt
- c) 002 - 98 kt
- d) 348 - 102 kt

03. In the ICAO Standard Atmosphere the decrease in temperature with height below 11 km is

- a) 1°C per 100m
- b) 0.65°C per 100m
- c) 0.6°C per 100m
- d) 0.5°C per 100m

04. In an ATC flight plan Item 15 (route), in terms of latitude and longitude, a significant point at 41°35' north 4°15' east should be entered as:

- a) 4135N00415E
- b) N4135 E00415
- c) N04135E0415
- d) 41°35' N 04° 15'E

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05. 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°.

06. The documents for entry and departure of aircraft:

- a) Has to be typewritten
- b) Are accepted in hand-written block lettering in ink
- c) Are accepted at the contracting state discretion
- d) Has to be typewritten or produced by electronic data processing techniques

07. One method to compensate adverse yaw is:

- a) A differential aileron.
- b) A balance panel.
- c) An anti-balance tab.
- d) A balance tab.

08. With the development of a thunderstorm, at what stage will there be only updraughts of air?

- a) Mature stage
- b) Anvil stage
- c) Initial stage
- d) Dissipating stage

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

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

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10. A rich mixture setting has to be used during climb segments. This results in a:

- a) Higher Efficiency
- b) Slight loss of power
- c) Lower cylinder head temperature
- d) Higher Torque

11. Refer to Student Pilot Route Manual London, Heathrow (Plate 10- 3): Which of the following is a correct Minimum Safe Altitude (MSA) for the Airport?

- a) West sector 2300 ft within 25 NM
- b) East sector 2100 ft within 50 NM
- c) West sector 2100 ft within 25 NM
- d) East sector 2300 ft within 50 NM[see Annex]

12. In the ATC flight plan item 15, it is necessary to enter any point at which a change of cruising speed takes place. For this purpose a 'change of speed' is defined as:

- a) 20 km per hour or 0.1 Mach or more
- b) 10 % TAS or 0.05 Mach or more
- c) 20 knots or 0.05 Mach or more
- d) 5% TAS or 0.01 Mach or more

13. What is the maximum speed adjustment that a pilot should be requested to make when under radar control and established on intermediate and final approach?

- a) ± 15 KT
- b) ± 20 KT
- c) ± 25 KT
- d) ± 10 KT

14. Which of the following calls is a 'general call'?

- a) ALL STATIONS Stephenville CONTROL
- b) YX-EFG, YX-FGH over
- c) YX-DEF Stephenville CONTROL
- d) YX-ABC, YX-BCD, YX-CDE Stephenville CONTROL

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15. The longitudinal separation minima based on time between aircraft at same cruising level where navigation aids permit frequent determination of position and speed, is:

- a) 10 minutes.
- b) 3 minutes.
- c) 15 minutes.
- d) 5 minutes.

16. What is the value of the convergence factor on a Polar Stereographic chart?

- a) 0.866
- b) 0.5
- c) 1.0
- d) 0.0

17. With respect to aeroplane loading in the planning phase, which of the following statements is always correct ?
LM = Landing Mass TOM = Take-off Mass MTOM = Maximum Take-off Mass ZFM = Zero Fuel Mass MZFM = Maximum Zero Fuel Mass DOM = Dry Operating Mass

- a) $MTOM = ZFM + \text{maximum full tank fuel mass}$
- b) $LM = TOM - \text{Trip Fuel}$
- c) $\text{Reserve Fuel} = TOM - \text{Trip Fuel}$
- d) $MZFM = \text{Traffic load} + DOM$

18. 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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19. 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

20. Given: Magnetic heading 280° VOR radial 090° What bearing should be selected on the omni-bearing selector in order to centralise the VOR deviation needle with a 'TO' indication?

- a) 270°
- b) 090°
- c) 100°
- d) Stop the loop rotation

21. Given: TAS = 370 KT True HDG = 181° W/V = 095°(T) / 35 KTCalculate the true track and GS?

- a) 192 - 370 kt
- b) 176 - 370 kt
- c) 189 - 370 kt
- d) 186 - 370 kt

22. Any acceleration in climb, with a constant power setting:

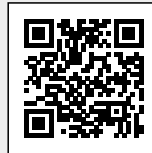
- a) Improves the rate of climb if the airspeed is below VY
- b) Improves the climb gradient if the airspeed is below VX
- c) Decreases rate of climb and increases angle of climb
- d) Decreases the rate of climb and the angle of climb

23. In determining the Dry Operating Mass of an aeroplane it is common practice to use 'standard mass' values for crew. These values are

- a) Flight crew 85 kg., cabin crew 75 kg. each. These do not include a hand baggage allowance.
- b) Flight crew 85 kg., cabin crew 75 kg. each. These are inclusive of a hand baggage allowance.
- c) Flight crew (male) 88 kg. (female) 75 kg., cabin crew 75 kg. each. These do not include an allowance for hand baggage.
- d) Flight crew (male) 88 kg. (female) 75 kg., cabin crew 75 kg. each. These include an allowance for hand baggage.

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24. Which constant pressure altitude chart is standard for FL 390?

- a) 500 hPa
- b) 300 hPa
- c) 700 hPa
- d) 200 hPa

25. Where is the coldest air to be found, in an occlusion with cold front characteristics?

- a) Ahead of the front.
- b) Behind the front.
- c) At the junction of the occlusion.
- d) At the surface position of the front.

26. The Sun moves from East to West at a speed of 15° longitude an hour. What ground speed will give you the opportunity to observe the Sun due South at all times at 60°00'N?

- a) 300 kts
- b) 450 kts
- c) 520 kts
- d) 780 kts

27. If a pilot receives an instruction from ATC which cannot be carried out, the reply should use the phrase:

- a) UNABLE
- b) NEGATIVE INSTRUCTION
- c) REGRET CANNOT FOLLOW INSTRUCTION
- d) CANCEL INSTRUCTION

28. Which combination of speeds is applicable for structural strength in gust (clean configuration)?

- a) 50 ft/sec and VC
- b) 55 ft/sec and VB
- c) 65 ft/sec at all speeds
- d) 66 ft/sec and VD

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29. 'Integrated range' curves or tables are presented in the Aeroplane Operations Manuals. Their purpose is

- a) To determine the flight time for a certain leg under consideration of temperature deviations.
- b) To determine the fuel consumption for a certain still air distance considering the decreasing fuel flow with decreasing mass.
- c) To determine the optimum speed considering the fuel cost as well as the time related cost of the aeroplane.
- d) To determine the still air distance for a wind components varying with altitude.

30. In a Satellite-Assisted Navigation System (GNSS/GPS), a fix is obtained by:

- a) Measuring the time taken for a minimum number of satellites' transmissions, in known positions, to reach the aircraft's receiver
- b) Measuring the pulse lengths of signals received from a minimum number of satellites received in a specific sequential order
- c) Measuring the time taken for an aircraft's transmissions to travel to a number of satellites, in known positions, and return to the aircraft's receiver
- d) Inhibit unwanted ground returns

31. ATC clears Fastair 345 to descend from FL 100 to FL 80. What is the correct read back by the pilot:

- a) Leaving flight level 100 descending to flight level 80, Fastair 345
- b) Leaving 100 to 80, Fastair 345
- c) Down to flight level 80, Fastair 345
- d) Descending to 80, Fastair 345

32. Given: True course 300° drift 8°R variation 10°W deviation -4° Calculate the compass heading.

- a) 322°
- b) 306°
- c) 278°
- d) 294°

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33. In relation to the NAVSTAR/GPS satellite navigation system, what is involved in the differential technique (D-GPS)?

- a) Receivers from various manufacturers are operated in parallel to reduce the characteristic receiver noise error
- b) The difference between signals transmitted on the L1 and L2 frequencies are processed by the receiver to determine an error correction
- c) Signals from satellites are received by 2 different antennas which are located a fixed distance apart. This enables a suitable receiver on the aircraft to recognise and correct for multipath errors
- d) Monitor the orbital planes of the satellites

34. The expression "primary flight control" applies to the: 1) stabilizer 2) rudder 3) speed brake 4) aileron The combination that regroups all of the correct statements is:

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

35. 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

36. Given: Z_p = pressure altitude Z_d = density altitude TAS can be obtained from the following data:

- a) EAS and Z_p .
- b) EAS and Z_d .
- c) CAS and Z_p .
- d) CAS and Z_d .

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37. An aeroplane has the following masses: ESTLWT= 50 000 kg Trip fuel= 4 300 kg Contingency fuel= 215 kg Alternate fuel (final reserve included)= 2 100 kg Taxi= 500 kg Block fuel= 7 115 kg Before departure the captain orders to make the block fuel 9 000 kg. The trip fuel in the operational flight plan should read:

- a) 6 185 kg.
- b) 9 000 kg.
- c) 4 300 kg.
- d) 6 400 kg.

38. A great circle track joins position A (59°S 141°W) and B (61°S 148°W). What is the difference between the great circle track at A and B?

- a) It increases by 3°
- b) It decreases by 6°
- c) It decreases by 3°
- d) It increases by 6°

39. Instrument Departure Procedure - Wind correction Flying an Instrument Departure Procedure pilots are expected to:

- a) Request from ATC an adequate heading to cater for wind direction and strength.
- b) Ignore the wind and proceed on a heading equal to the track.
- c) Correct the track for known wind to remain within the protected airspace.
- d) Request a clearance from ATC with regards to a wind correction to be applied.

40. In a turn at a constant angle of bank, the turn indicator reading is:

- a) Independent to the aircraft true airspeed
- b) Proportional to the aircraft true airspeed
- c) Proportional to the aircraft weight
- d) Inversely proportional to the aircraft true airspeed

41. In the absence of position and instrument errors:

- a) IAS = EAS.
- b) IAS = CAS.
- c) CAS = TAS.
- d) CAS = EAS.

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42. The aircraft radio equipment which emits on a frequency of 4400 MHz is the:

- a) Radio altimeter.
- b) Primary radar.
- c) Weather radar.
- d) High altitude radio altimeter.

43. Given: Distance from departure to destination: 3750 NM Endurance: 9,5 h True Track: 360 W/V: 360/50 TAS: 480 kt What is the distance of the PSR from the departure point?

- a) 2070 NM
- b) 2255 NM
- c) 1495 NM
- d) 1128 NM

44. Which of these phrases is used to inform the control tower that a pilot perform a missed approach:

- a) Overshooting
- b) Going around
- c) Pulling up
- d) Will make another approach

45. Long range cruise is a flight procedure which gives:

- a) A specific range which is approximately 99% of maximum specific range and a higher cruise speed
- b) A specific range which is approximately 99% of maximum specific range and a lower cruise speed
- c) An IAS which is 1% higher than the IAS for maximum specific range
- d) A 1% higher TAS for maximum specific range

46. An aeroplane flies from A (59°S 142°W) to B (61°S 148°W) with a TAS of 480 KT. The autopilot is engaged and coupled with an Inertial Navigation System in which AB track is active. On route AB, the true track:

- a) Increases by 5°
- b) Varies by 4°
- c) Decreases by 6°
- d) Varies by 10°

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47. The elevators of a conventional airplane are used to provide rotation about the:

- a) Longitudinal Axis.
- b) Lateral axis.
- c) Vertical Axis.
- d) Directional Axis.

48. An additional baggage container is loaded into the aft cargo compartment but is not entered into the load and trim sheet. The aeroplane will be heavier than expected and calculated take-off safety speeds

- a) Will not be achieved.
- b) Will be greater than required.
- c) Will give reduced safety margins.
- d) Are unaffected but V1 will be increased.

49. A plain in Western Europe with an average height of 500 m (1600 FT) above sea level is covered with a uniform CC layer of cloud during the summer months. At what height above the ground is the base of this cloud to be expected?

- a) 15000 - 35000 FT above the terrain
- b) 100 - 1500 FT above the terrain
- c) 1500 - 7000 FT above the terrain
- d) 7000 - 15000 FT above the terrain

50. Ozone in the air of a pressurized cabin can be eliminated by:

- a) Ozone-converters
- b) Spraying detergents
- c) Climbing to altitudes above 45,000 ft
- d) Avoiding flights along the equator

51. Where, in relation to the runway, is the ILS localiser transmitting aerial normally situated?

- a) At the approach end of the runway about 300 m from touchdown on the centreline
- b) At the non-approach end about 150 m to one side of the runway and 300 m along the extended centreline
- c) On the non-approach end of the runway about 300 m from the runway on the extended centreline
- d) At the approach end about 150 m to one side of the runway and 300 m from touchdown

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52. The take-off mass of an aeroplane is restricted by the climb limit. What would be the effect on this limit of an increase in the headwind component?

- a) The climb limited take-off mass would increase
- b) The effect would vary depending upon the height of any obstacle within the net take-off flight path
- c) The climb limited take-off mass would decrease
- d) None

53. Required Navigation Performance (RNP) shall be prescribed

- a) By states but not on the basis of regional air agreements
- b) By states on the basis of regional air navigation agreements
- c) By regional air navigation agreements
- d) By ICAO on the basis of regional air navigation agreements

54. In the NAVSTAR/GPS satellite navigation system, re-use of Selective Availability would give the option to artificially degrade the accuracy by:

- a) Shutting off selected satellites
- b) Dithering the satellite clock
- c) Offsetting satellite atomic clocks by a predetermined constant amount
- d) Radio communication failure

55. Which of the following statements regarding aerodrome control service is correct?

- a) An aircraft entering the traffic circuit without permission of ATC, will be cleared to land if this is desirable
- c) ATC permission is required for entering the apron with a vehicle
- d) Suspension of VFR operations can not be initiated by the aerodrome controller

56. When preparing to carry out the weighing procedure on an aircraft, which of the following is not required?

- a) Drain all chemical toilet fluid tanks.
- b) Drain all usable fuel.
- c) Removable passenger services equipment to be off-loaded.
- d) Drain all engine tank oil.

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57. The polar curve of an aerofoil is a graphic relation between:

- a) TAS and stall speed
- b) Angle of attack and CL
- c) CL and CD
- d) CD and angle of attack

58. Freezing fog consists of

- a) Frozen water droplets
- b) Supercooled water droplets
- c) Ice crystals
- d) Frozen minute snow flakes

59. A flight benefits from a strong tail wind which was not forecast. On arrival at destination a straight in approach and immediate landing clearance is given. The landing mass will be higher than planned and

- a) The landing distance will be unaffected.
- b) The landing distance required will be longer.
- c) The approach path will be steeper and threshold speed higher.
- d) The approach path will be steeper.

60. Air traffic control service is provided for the purpose of:

- a) Applying separation between aircraft and expediting and maintaining an orderly flow of air traffic
- b) Preventing collisions between controlled air traffic and expediting and maintaining an orderly flow of air traffic
- c) Preventing collisions between aircraft, between aircraft and obstacles on the manoeuvring area and expediting and maintaining an orderly flow of air traffic
- d) Avoiding collisions between all aircraft and maintaining an orderly flow of air traffic

61. The lowest point of the thrust required curve of a jet aeroplane is the point for:

- a) Maximum specific range
- b) Minimum drag
- c) Minimum specific range
- d) Minimum endurance

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62. What values are used for the forecasted wind at higher levels?

- a) Direction relative to magnetic north and speed in knots
- b) Direction relative to true north and speed in knots
- c) Direction relative to grid north and speed in km/h
- d) Direction relative to magnetic north and speed in km/h

63. For an ATC flight plan filed before the flight, the indicated time of departure is:

- a) The time at which the flight plan is filed.
- b) The estimated off-block time
- c) The time overhead the first reporting point after take-off.
- d) The time of take-off.

64. Which of the following statements about stall speed is correct?

- a) Use of a T-tail will decrease the stall speed
- b) Increasing the angle of sweep of the wing will decrease the stall speed
- c) Increasing the anhedral of the wing will decrease the stall speed
- d) Decreasing the angle of sweep of the wing will decrease the stall speed

65. When an aircraft is rolled to the left, adverse yaw will be reduced by:

- a) Frise ailerons producing increased drag on both surfaces.
- b) A frise aileron being effective on the left wing.
- c) The down-going aileron moving through a greater angle of deflection than the up-going aileron.
- d) The leading edge of the down-going aileron protruding into the airflow.

66. From the following list: 1. Fire extinguishers 2. Portable oxygen supplies 3. First-aid kits 4. Passenger meals 5. Alcoholic beverages Which are classed as Dangerous Goods that are required to be on the aircraft in accordance with relevant JAR's for operating reasons:

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

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67. Internal conflict within oneself is termed as:

- a) Intro-personal conflict
- b) Intra-personal conflict
- c) Intermediate-personal conflict
- d) Inter-personal conflict

68. The second freedom of the air is the:

- a) Right to land for a technical stop
- b) Right to operate a commercial passenger flight with passengers on board between two states.
- c) Right to 'cabotage' traffic, (trans-border traffic).
- d) Right to overfly without landing

69. In flight, the most commonly used anti-icing method for the wings of modern commercial aircraft fitted with turbo-jet units is: 1 - They prevent ice formation. 2 - They are triggered from the flight deck after icing has become visible. 3 - A cycle lasts more than ten seconds .4 - There are more than ten cycles per second

- a) Physical/chemical (glycol-based Liquid).
- b) Electrical (electrical resistances).
- c) Thermal (use of hot air).
- d) Mechanical (pneumatic Source Which Acts By Deforming The Profiles Of The Leading Edge).

70. Which is the frequency band containing frequencies of the Aeronautical Mobile Service?

- a) 108.000 - 117.975 MHz
- b) 1810 - 2850 KHz
- c) 118.000 - 136.975 MHz
- d) 11650 - 13200 KHz

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Schema Risposte

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

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