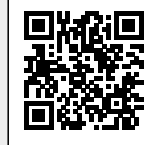


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NOME ALLIEVO:

DATA & ORA:

01. A magnetic circuit breaker:

- a) Permits An Overcurrent Limited In Time.
- b) Can be reset without any danger even when fault remains.
- c) Is a protection system that has a quick tripping response.
- d) Is A System With A Slow Response Time.

02. Select the letter code for HB-FBO.

- a) Hotel Bravo Fox Roma Olka
- b) Hotel Bravo Fox-trot Bravo Oscar
- c) Hotel Bravo Foxy Romeo Oscar
- d) Hector Brasil Fox-trot Romeo Oscar

03. Floating due to ground effect during an approach to land will occur:

- a) When the height is less than half of the length of the wing span above the surface
- b) At a speed approaching the stall
- c) When a higher than normal angle of attack is used
- d) When the height is less than twice the length of the wing span above the surface

04. If no meteorological information is available for the destination, the operator must:

- a) Not take-off until obtaining destination meteorological forecast.
- b) Take extra fuel to fly two hours at holding speed.
- c) Select two destination alternates.
- d) Take extra fuel to fly one hour at holding speed, 1.500 ft above the alternate aerodrome.

05. 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

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06. 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

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. 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

09. 'Standard Mass' as used in the computation of passenger load establish the mass of a child as

- a) 35 kg only if they are over 2 years old and occupy a seat.
- b) 35 kg irrespective of age provided they occupy a seat.
- c) 35 kg for children over 2 years occupying a seat and 10 kg for infants (less than 2 years) occupying a seat.
- d) 35 kg for children over 2 years occupying a seat and 10 kg for infants (less than 2 years) not occupying a seat.

10. Which of the following parts is a typical semiconductor part?

- a) Transistor
- b) Coil
- c) Relay
- d) Resistor

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11. How long does it take a NAVSTAR/GPS satellite to orbit the earth?

- a) Approximately 24 hours (one sidereal day)
- b) Approximately 12 hours (1/2 of a sidereal day)
- c) 365 days because the satellites are located in a geostationary orbit
- d) The nearer a receiver is situated to a D-GPS ground station, the more accurate the position fix

12. If it exists, the M.M.E.L. (Master Minimum Equipment List) is drawn up by:

- a) The aircraft manufacturer's list.
- b) The operator.
- c) The aircraft state of registry.
- d) The manufacturer / the type certificate holder.

13. The angle between the aeroplane longitudinal axis and the chord line is the:

- a) Angle of incidence
- b) Climb path angle
- c) Angle of attack
- d) Glide path angle

14. Which word or phrase shall be used to indicate a separation between portions of a message?

- a) I say again
- b) Stop
- c) Over
- d) Break

15. According to Annex 7, the registration mark shall be letters, numbers or a combination of letters and numbers and shall be that assigned by:

- a) The state of registry only
- b) The International Civil Aviation Organisation
- c) The state of registry or common mark registering authority
- d) The International Telecommunication Union

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16. Which one of the statements below is correct regarding the DME?

- a) The DME operating frequencies are in the UHF frequency band.
- b) The DME ground station is always co-located with a VOR station.
- c) The indicated distance is the ground distance measured from the aircraft's projected position on the ground to the DME ground installation.
- d) Two lines of position obtained from two different DME's give an unambiguous fix.

17. A body is placed in a certain airstream. The airstream velocity increases by a factor 4. The aerodynamic drag will increase with a factor:

- a) 4
- b) 8
- c) 16
- d) 12

18. In accordance with JAR OPS 1, the operator shall ensure that:

- a) For VFR flights conducted in class B airspace, horizontal distance from clouds is at least 1000m.
- b) For VFR flights conducted in class F airspace, vertical distance from clouds is at least 250m.
- c) Special VFR flights are not commenced when visibility is less than 3 km.
- d) For VFR flights conducted in class E airspace, flight visibility at and above 3050m (10000ft) is at least 5 km (clear of cloud).

19. The Leans or Somatogyral illusion can be caused by:

- a) Going into a turn too quickly
- b) Bunting the aircraft
- c) A carrier take-off
- d) Reducing bank following a prolonged turn

20. 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

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21. When the term 'Overcast' is used in an aviation routine weather report (METAR), the amount of clouds covering the sky is:

- a) Less than 50%
- b) 50% or more
- c) No clouds but poor ground visibility
- d) 100%

22. A load placed forward of the datum

- a) Has a negative arm and therefore generates a negative mass and moment
- b) Has a positive arm and therefore generates a positive mass and moment
- c) Has a negative arm and therefore generates a negative moment
- d) Has a positive arm and therefore generates a positive moment

23. During a VFR flight at a navigational checkpoint the remaining usable fuel in tanks is 60 US gallons. The reserve fuel is 12 US gallons. According to the flight plan the remaining flight time is 1h35min. Calculate the highest acceptable rate of consumption possible for the rest of the trip.

- a) 33.0 US gallons/hour
- b) 30.3 US gallons/hour
- c) 21.3 US gallons/hour
- d) 37.9 US gallons/hour

24. The compressor surge effect during acceleration is prevented by the:

- a) Inlet Guide Vanes.
- b) Fuel Control Unit (F
- c) U.).variable setting type nozzle guide vanes.
- d) Surge Bleed Valves.

25. The transmitter of RPM indicator may consist of:1- a magnetic sensor supplying an induced AC voltage 2- a DC generator supplying a DC voltage3- a single-phase AC generator supplying an AC voltage4- a three-phase AC generator supplying a three-phase voltage The combination regrouping all the correct statements is:

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

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26. What is the influence of the mass on maximum rate of climb (ROC) speed if all other parameters remain constant?

- a) The ROC is affected by the mass, but not the ROC speed
- b) The ROC speed decreases with increasing mass
- c) The ROC and the ROC speed are independent of the mass
- d) The ROC speed increases with increasing mass

27. Which of the following components belong to the middle ear?

- a) Otoliths
- b) Endolymph
- c) Ossicles
- d) Semicircular canals

28. What does the word "NEGATIVE" mean?

- a) Proposed action granted.
- b) Permission not granted.
- c) Consider that transmission as not sent.
- d) Disregard last instruction.

29. The loss of total pressure in a shock wave is due to the fact that

- a) The speed reduction is too high.
- b) Kinetic energy in the flow is converted into heat energy.
- c) The friction in the boundary layer is higher.
- d) The static pressure decrease is comparatively high.

30. Arrival and Approach segments, General What are the names of all separate segments that can be part of an instrument approach procedure?

- a) Initial, intermediate, final.
- b) Arrival, holding, initial, intermediate, final, missed approach.
- c) Arrival, initial, intermediate, final, missed approach.
- d) Descend, holding arrival, initial, intermediate, final, missed approach.

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31. What is the effect of an aft shift of the centre of gravity on (1) static longitudinal stability and(2) the required control deflection for a given pitch change?

- a) (1) reduces (2) reduces
- b) (1) reduces (2) increases
- c) (1) increases (2) increases
- d) (1) increases (2) reduces

32. What is the position of the elevator in relation to the trimmable horizontal stabiliser of a power assisted aeroplane that is in trim?

- a) The elevator deflection (compared to the stabilizer position) is always zero.
- b) At a forward CG the elevator is deflected upward and at an aft CG the elevator is deflected downward.
- c) The position depends on speed, the position of slats and flaps and the position of the centre of gravity.
- d) The elevator is always deflected slightly downwards in order to have sufficient remaining flare capability.

33. Thermal plugs are installed in:

- a) Wheel rims.
- b) Cargo compartments.
- c) Cabin windows.
- d) Fire Warning Systems.

34. An aeroplane is carrying a traffic load of 10320 kgComplete the necessary sections of the attached appendix and determine which of the answers given below represents the maximum increase in the traffic load

- a) 7000 kg
- b) 8268 kg
- c) 1830 kg
- d) 655 kg[see Annex]

35. The one engine out take-off run is the distance between the brake release point and:

- a) The lift-off point
- b) The point where V2 is reached
- c) The middle of the segment between VLOF point and 35 ft point
- d) The point half way between V1 and V2

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36. 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.

37. 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

38. A flight is to be made from 'A' 49°S 180°E/W to 'B' 58°S, 180°E/W. The distance in kilometres from 'A' to 'B' is approximately:

- a) 540
- b) 1222
- c) 804
- d) 1000

39. The minimum navigation equipment required for an aircraft flying without restriction in MNPS airspace can be at the very least:

- a) Two inertial navigation systems
- b) One inertial navigation system
- c) Three inertial navigation systems
- d) One Global Navigation Satellite System

40. The purpose of a ditching control is to:

- a) Achieve Rapid Depressurisation.
- b) Open the outflow valve(s).
- c) Close the outflow valve(s).
- d) Direct Pressurisation Air To The Flotation Bags.

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41. The operator of an aircraft equipped with 50 seats uses standard masses for passengers and baggage. During the preparation of a scheduled flight a group of passengers present themselves at the check-in desk, it is apparent that even the lightest of these exceeds the value of the declared standard mass.

- a) The operator may use the standard masses for the load and balance calculation without correction
- b) The operator may use the standard masses for the balance but must correct these for the load calculation
- c) The operator should use the individual masses of the passengers or alter the standard mass
- d) The operator is obliged to use the actual masses of each passenger

42. What does the abbreviation 'INS' mean:

- a) Instrument navigation system
- b) International NOTAM system
- c) Inertial navigation system
- d) International navigation service

43. When engaged in the lateral navigation mode (LNAV) the autopilot uses:

- a) The FMS active (TO) waypoint coordinates.
- b) The FMS computation of the aircraft position and the FMS active (TO) waypoint bearing.
- c) The FMS roll or heading command.
- d) The FMS path angle command.

44. On the display of a TCAS 2 (Traffic alert and Collision Avoidance System), a traffic advisory (TA) is represented by:

- a) A white or cyan empty lozenge.
- b) A white or cyan solid lozenge.
- c) An amber solid circle.
- d) A red full square.

45. It is desirable to standardize as many patterns of behaviour (operating procedures) as possible in commercial aviation mainly because

- a) Such behaviour reduces errors even under adverse circumstances
- b) It makes the flight deck easier to design
- c) This reduces the amount of training required
- d) This lowers the ability requirement in pilot selection

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46. Which of the following statements about the accuracy that can be obtained with the differential technique (D-GPS) of the satellite navigation system NAVSTAR/GPS is correct?

- a) A D-GPS receiver can detect and correct for SA providing a more accurate position fix
- b) The increase in accuracy of position fixes is independent of the receiver position in relation to a D-GPS ground station
- c) Only D-GPS allows position fixes accurate enough for 'Non Precision Approaches'
- d) The nearer a receiver is situated to a D-GPS ground station, the more accurate the position fix

47. How can a pilot increase his tolerance to +Gz ?

- a) Tighten shoulder harness.
- b) Tightening of the stomach muscles.
- c) Relax the muscles and lean upper body forward.
- d) Take an upright seat position.

48. CRM and MCC training are designed to improve:

- a) Individual achievement
- b) The quality of crew performance
- c) The quality and a number of individuals' performance
- d) Individual efficiency and contribution

49. Which one of the following types of cloud is most likely to produce heavy precipitation ?

- a) NS.
- b) ST.
- c) S
- d) CS.

50. The movement area of an airfield, the adjacent lands and buildings or the parts of them with controlled access is called:

- a) Security program.
- b) Aeronautical part
- c) Terminal.
- d) Manoeuvring area.

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51. Which of the following frequencies is an international emergency frequency:

- a) 6500 KHz
- b) 122.500 MHz
- c) 121.050 MHz
- d) 121.500 MHz

52. The main task of the user segment (receiver) of the satellite navigation system NAVSTAR/GPS is to:

- a) Transmit signals which, from the time taken, are used to determine the distance to the satellite
- b) To monitor the status of the satellites, determine their positions and to measure the time
- c) Select appropriate satellites automatically, to track the signals and to measure the time taken by signals from the satellites to reach the receiver
- d) WGS 84

53. According to the 'Aerodrome Reference Code', the 'Code Letter E' shall identify an aircraft wing span of:

- a) 52 m up to but not including 65 m.
- b) 15 m up to but not including 24 m.
- c) 24 m up to but not including 36 m.
- d) 36 m up to but not including 52 m.

54. 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.

55. Hyperventilation is:

- a) A too high percentage of nitrogen in the blood
- b) A decreased lung ventilation
- c) An increased lung ventilation
- d) A too high percentage of oxygen in the blood.

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56. What does the word " WILCO" mean?

- a) I read you fine.
- b) I understand your message and will comply with it.
- c) I have received all of your last transmission.
- d) As communication is difficult, I will call you later.

57. Which of the following flight phenomena can occur at Mach numbers below the critical Mach number?

- a) Mach buffet.
- b) Tuck under.
- c) Shock stall.
- d) Dutch roll.

58. Which cloud type may indicate the presence of severe turbulence?

- a) Stratocumulus
- b) Cirrocumulus
- c) Altocumulus lenticularis
- d) Nimbostratus

59. What is the correct way of expressing visibility ?

- a) Visibility 1200 feet
- b) Visibility 1.2 nautical miles
- c) Visibility 1200 metres
- d) Visibility 1.2 kilometres

60. During sustained positive G-forces the order of symptoms you can expect is:

- a) Grey-out, tunnel vision, black-out and unconsciousness.
- b) Grey-out, unconsciousness, black-out and tunnel vision.
- c) Black-out, grey-out, tunnel vision and unconsciousness.
- d) Unconsciousness, black-out, tunnel vision and grey out.

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61. A signal sent by radiotelephony consisting of the spoken word MAYDAY MAYDAY MAYDAY means:

- a) The aircraft has a very urgent message to transmit concerning the safety of a ship, aircraft or vehicle
- b) The aircraft has a message to transmit concerning adverse weather conditions along its route of flight
- c) Imminent danger threatens the aircraft and immediate assistance is required
- d) The aircraft is forced to perform a fuel dumping procedure

62. In the absence of position and instrument errors:

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

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. What is required if security personnel on board are to be armed?

- a) Agreement with the destination State and inform the PI
- b) Inform the police department at the destination airport.
- c) Inform the police department at the destination airport. Notify PIC that the decision has been made to allow armed persons on board.
- d) Agreement between State of departure and airport of arrival.

65. Which of the following factors will lead to an increase of ground distance during a glide, while maintaining the appropriate minimum glide angle speed?

- a) Increase of aircraft mass
- b) Decrease of aircraft mass
- c) Tailwind
- d) Headwind

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66. For the same TAS, when pressure altitude increases below the tropopause:

- a) Mach number remains constant.
- b) Mach number decreases.
- c) The difference between surrounding conditions and ISA must be known to deduce the Mach number variation.
- d) Mach number increases.

67. At rest the cardiac output (the quantity of blood the heart pumps in one minute) of an adult is approximately:

- a) 5 litres/min
- b) 75 litres/min
- c) 45 litres/min
- d) 450 ml/min

68. You intend to operate a public transport aeroplane (land aeroplane) with 60 persons on board. The track will overfly water at 80 nautical miles from the shore. The minimum number of approved life jackets to be on board is:

- b) 66
- c) None if equipped with life rafts
- d) 60

69. One of the main characteristics of windshear is that it:

- a) Occurs only at a low altitude (2000 ft) and never in the vertical plane
- b) Occurs only at a low altitude (2000 ft) and never in the horizontal plane
- c) Can occur at any altitude in both the vertical and horizontal planes
- d) Can occur at any altitude and only in the horizontal plane

70. 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]

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Schema Risposte

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

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