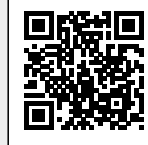


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NOME ALLIEVO:

DATA & ORA:

**01. What is the effect of a head wind component, compared to still air, on the maximum range speed (IAS) and the speed for maximum climb angle respectively?**

- a) Maximum range speed decreases and maximum climb angle speed increases
- b) Maximum range speed decreases and maximum climb angle speed decreases
- c) Maximum range speed increases and maximum climb angle speed stays constant
- d) Maximum range speed increases and maximum climb angle speed increases

**02. If an aircraft flies along a VOR radial it will follow a:**

- a) Rhumbline track
- b) Great circle track
- c) Constant magnetic track
- d) 140°

**03. When taking-off after a widebody aircraft which has just landed, you should take-off:**

- a) In front of the point where the aircraft's wheels have touched down.
- b) Beyond the point where the aircraft's wheels have touched down.
- c) At the point where the aircraft's wheels have touched the ground and on the underwind side of the runway .
- d) At the point where the aircraft's wheels have touched down and on the wind side of the runway .

**04. Which of the following will decrease V1?**

- a) Increased take-off mass
- b) Inoperative anti-skid
- c) Increased outside air temperature
- d) Inoperative flight management system

**05. Which aeroplane behaviour will be corrected by a yaw damper ?**

- a) Tuck under.
- b) Dutch roll.
- c) Buffeting.
- d) Spiral dive.

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## 06. What does the word 'Monitor' mean:

---

- a) Wait and I will call you
- b) Establish radio contact with...
- c) Listen out on (frequency).
- d) Examine a system or procedure

## 07. What can happen to the aeroplane structure flying at a speed just exceeding VA ?

---

- a) It may suffer permanent deformation if the elevator is fully deflected upwards
- b) It will collapse if a turn is made.
- c) It may suffer permanent deformation because the flight is performed at too large dynamic pressure.
- d) It may break if the elevator is fully deflected upwards.

## 08. Circling approach One of the conditions to descent below the MDA on a circling approach is:

---

- a) The landing runway and an alternative landing possibility (runway) are in sight.
- b) The required visual references have been established and can be maintained.
- c) The Ceiling is 1500 ft or higher.
- d) The horizontal Visibility is at least 5 NM and the Ceiling is 1500 ft or higher.

## 09. When it becomes apparent that an aircraft is in difficulty, the decision to initiate the alert phases is the responsibility of the:

---

- a) Operational air traffic control centres
- b) Search and rescue co-ordination centres
- c) Air traffic co-ordination services
- d) Flight information or control organisations

## 10. What is the temperature deviation (°C) from ISA over 50° N 010°E ?

---

- a) -55
- b) -10
- c) +10
- d) +2

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## 11. Changing of flight rules from IFR to VFR is possible

---

- a) If instructed by ATC so long as VMC is forecasted during the next 60 minutes
- b) If instructed by ATC so long as VMC is forecasted during the next 30 minutes
- c) Only when leaving controlled airspace
- d) If the commander so requests

## 12. How does stalling speed (IAS) vary with altitude?

---

- a) It remains constant at lower altitudes but increases at higher altitudes due to compressibility effects
- b) It remains constant at lower altitudes but decreases at higher altitudes due to compressibility effects
- c) It increases with increasing altitude, because the density decreases
- d) It remains constant

## 13. An aircraft is planned to fly from position 'A' to position 'B', distance 250 NM at an average GS of 115 kt. It departs 'A' at 0900 UTC. After flying 75 NM along track from 'A', the aircraft is 1.5 MIN behind planned time. Using the actual GS experienced, what is the revised ETA at 'B'?

---

- a) 1115 UTC
- b) 1050 UTC
- c) After flying 75 NM along track from 'A', the aircraft is 1.5 MIN behind planned time. Using the actual GS experienced, what is the revised ETA at 'B'? 1115 UTC 1050 UTC 1044 UTC
- d) 1110 UTC

## 14. A jet aeroplane, with the geometrical characteristics shown in the appendix, has a take-off weight (W) of 460 000 N and a centre of gravity (point G on annex) located at 15.40 m from the zero reference point. At the last moment the station manager has 12 000 N of freight added in the forward compartment at 10 m from the zero reference point. The final location of the centre of gravity, calculated in percentage of mean aerodynamic chord AB (from point A), is equal to:

---

- a) 16.9 %.
- b) 27.5 %.
- c) 35.5 %.
- d) 30.4 %.

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**15. A revenue flight is to be made by a jet transport. The following are the aeroplane's structural limits:-Maximum Ramp Mass: 69 900 kg-Maximum Take Off Mass: 69 300 kg-Maximum Landing Mass: 58 900 kg-Maximum Zero Fuel Mass: 52 740 kgTake Off and Landing mass are not performance limited. Dry Operating Mass: 34 930 kgTrip Fuel: 11 500 kg Taxi Fuel: 250 kgContingency & final reserve fuel: 1 450 kg Alternate Fuel: 1 350 kgThe maximum traffic load that can be carried is:**

---

- a) 21 070 kg
- b) 21 170 kg
- c) 20 420 kg
- d) 17 810 kg

**16. A TCAS II equipped a/c will have mode S because:**

---

- a) The data link is required to transmit relative position
- b) Mode S transmits a 3D position
- c) The datalink is required to co-ordinate evasive manoeuvres
- d) True altitude is obtained from mode S

**17. Due to its conception, the altimeter measures a:**

---

- a) A density altitude
- b) A temperature altitude
- c) A pressure altitude
- d) A true altitude

**18. At latitude 60°N the scale of a Mercator projection is 1: 5 000 000. The length on the chart between 'C' N60° E008° and 'D' N60° W008° is:**

---

- a) 17.8 cm
- b) 19.2 cm
- c) 35.6 cm
- d) 16.2 cm

**19. The difference between ( 1 ) a fuse and ( 2 ) a circuit breaker is:**

---

- a) (1) Suitable For High Currents, (2) Not Suitable For High Currents.
- b) (1) not suitable for high currents, (2) suitable for high currents.
- c) (1) not resettable, (2) resettable.
- d) (1) Not Resettable, (2) Not Resettable.

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**20. When an aeronautical station broadcasts information to more than one station, the call starts with:**

---

- a) 'Message to all aircraft on this frequency'
- b) 'General broadcast'
- c) 'Please listen'
- d) 'All stations'

**21. 'The Bends' as a symptom of decompression sickness consists of:**

---

- a) Pain in the joints
- b) Loss of peripheral vision
- c) CNS-disturbances
- d) Pain in the thorax and a cough

**22. The crew of a transport aeroplane prepares a flight using the following data:- Dry operating mass: 90 000 kg- Block fuel: 30 000 kg- Taxi fuel: 800 kg- Maximum take-off mass: 145 000 kg The traffic load available for this flight is:**

---

- a) 55 000 kg
- b) 25 000 kg
- c) 55 800 kg
- d) 25 800 kg

**23. On approach, by day, in snowy conditions, without reference to glideslope information:**

---

- a) There is a risk of you underestimating your speed
- b) Estimation of height and distance is not a problem for a well-trained pilot
- c) Judgement of height is extremely difficult
- d) There is a risk of you entering a spin

**24. During a flight to Europe, planned in MNPS (Minimum Navigation Performance Specification) airspace, you expect to cross the 30°W meridian at 00H30 UTC**

---

- a) You will then normally be
- c) Within the organised daytime track system
- d) Within the organised night-time track system

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**25. Flight Information Region (FIR) is an airspace within which the following services are provided:**

---

- a) Flight Information Service and Alerting Service.
- b) Flight Information Service and Advisory Service.
- c) Flight Information Service only.
- d) Flight Information Service, Alerting Service and Advisory Service.

**26. Given: Distance from departure to destination 340 NM True track 320W/V 160/40 TAS 110 kt What is the distance of the PET from the departure point?**

---

- a) 228 NM
- b) 112 NM
- c) 219 NM
- d) 121 NM

**27. 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

**28. In order to measure the radial from a VOR, the aircraft VOR receiver**

---

- a) Measures the time difference between reception of the two signals transmitted from the ground installation.
- b) Measures the phase difference between the reference phase and the variable phase of the signal.
- c) Measures the time difference between sending the interrogation signal and receiving the transponder signal.
- d) Uses pulse technique to determine the radial.

**29. The purpose of the 'Pressure Relief Valve' in a high pressure oxygen system is to:**

---

- a) Reduce Pressure In The Oxygen Reservoir To A Suitable Manifold Pressure For The Regulator
- b) Act as a manual shut-off valve
- c) Relieve overpressure if the pressure reducing valve malfunctions
- d) Maximize The Charging Pressure Of The System

# Simulazione di Esame

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**30. The purpose of a trim tab (device) is to:**

---

- a) Trim The Aeroplane During Normal Flight.
- b) Trim The Aeroplane At Low Airspeed.
- c) Reduce or to cancel control forces.
- d) Lower Manoeuvring Control Forces.

**31. According to PART-FCL, the aeroplane instructor categories recognised are:**

---

- a) FI(A)/TRI(A)/CRI(A)/IRI(A) and SFI authorisation
- b) FI(A) and IRI(A).
- c) FI(A)/TRI(A)/CRE(A)/IRE(A) and SFI authorisation
- d) FE(A)/TRE(A)/CRE(A)/IRE(A) and SFI authorisation.

**32. 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

**33. During a power change on an engine equipped with a constant speed propeller, a wrong combination of manifold pressure and RPM values results in excessive pressures in the cylinders. This is the case when one simultaneously selects a ...**

---

- a) High manifold pressure and low rpm.
- b) Low manifold pressure and low RPM.
- c) High manifold pressure and high RPM.
- d) Low Manifold Pressure And High Rpm.

**34. An aircraft is flying north-east at 2500 feet. TOWER requests heading and level. What is the correct response:**

---

- a) Heading north-east at level 25
- b) Heading 045 at 2500 feet
- c) 045 and 2500
- d) Heading 45 at 2500 feet

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## 35. The rate of climb:

---

- a) Is angle of climb times true airspeed
- b) Is the downhill component of the true airspeed
- c) Is the horizontal component of the true airspeed
- d) Is approximately climb gradient times true airspeed divided by 100

## 36. The fuel burn of an aircraft turbine engine is 220 l/h with a fuel density of 0,80. If the density is 0,75, the fuel burn will be:

---

- a) 235 l/h
- b) 176 l/h
- c) 220 l/h
- d) 206 l/h

## 37. 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.

## 38. 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

## 39. Due to a cabin pressurisation defect the maximum differential pressure is limited to 3 psi. Assuming the oxygen masks will be deployed at 14000 feet, the maximum achievable flight altitude is approximately:

---

- a) 22500 ft
- b) 24500 ft
- c) 29000 ft
- d) 27000 ft



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**40. In the ATC flight plan Item 10 (equipment), the letter to indicate the carriage of a serviceable transponder - mode A (4 digits-4096 codes) and mode C, is:**

---

- a) B
- b) A
- c) C
- d) P

**41. In a vapour cycle cooling system what is the purpose of the condenser?**

---

- a) To convert the refrigerant from a gas to a liquid.
- b) To raise the pressure of the gas to allow efficient cooling.
- c) To convert the refrigerant from a liquid to a gas.
- d) To Remove Moisture From The Air By Centrifugal Action.

**42. Given: Position A 45°N, ?°E Position B 45°N, 45°15'E Distance A-B = 280 NMB is to the East of A Required: longitude of position A?**

---

- a) 38°39'E
- b) 40°33'E
- c) 51°51'E
- d) 49°57'E

**43. The gyroscope used in an attitude indicator has a spin axis which is:**

---

- a) Horizontal, perpendicular to the yaw axis.
- b) Horizontal, perpendicular to the longitudinal axis.
- c) Vertical.
- d) Horizontal, parallel to the longitudinal axis.

**44. If the take-off mass of an aeroplane is tyre speed limited, downhill slope would:**

---

- a) Have no effect on the maximum mass for take-off
- b) Increase the required take-off distance
- c) Increase the maximum mass for take-off
- d) Decrease the maximum mass for take-off

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**45. 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)  $MZFM = \text{Traffic load} + DOM$

**46. In cruise flight, a centre of gravity moving aft will:**

---

- a) Decrease longitudinal static stability
- b) Not change the manoeuvrability
- c) Have no effect on longitudinal static stability
- d) Increase longitudinal static stability

**47. Following an act of unlawful interference on board an aircraft, the commander should submit a report to:**

---

- a) Both the local authority and the Authority of the State of the operator
- b) The Authority of the State within which the aircraft is operating at the time of the unlawful interference
- c) The Authority of the State of the operator only
- d) The local authority only

**48. The planned flight is over a distance of 440 NM. Based on the wind charts at altitude the following components are found: FL50: -30kt FL100: -50kt FL180: -70kt. The Operations Manual in appendix details the aircraft's performances. Which of the following flight levels (FL) gives the best range performance:**

---

- a) FL 100
- b) FL 180
- c) Either FL 050 or FL 100
- d) FL 050

**49. What is the minimum number of satellites required by a GPS in order to obtain a three dimensional fix?**

---

- a) 3
- b) 5
- c) 4
- d) Figure 4

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**50. Other factors remaining constant and not limiting, how does increasing pressure altitude affect allowable take-off mass?**

---

- a) Allowable take-off mass increases
- b) There is no effect on allowable take-off mass
- c) Allowable take-off mass decreases
- d) Allowable take-off mass remains uninfluenced up to 5000' pressure altitude

**51. When asked by ATC "ARE YOU ABLE TO MAINTAIN FL80?" the correct reply contains the word:**

---

- a) AFFIRM or NEGATIVE
- b) WILCO
- c) CLEARED
- d) ROGER

**52. An aircraft maintains a constant indicated altitude of 5500 FT from A (1050 FT/AMSL - QNH 968 hPa) to B (650 FT/AMSL - QNH 1016 hPa). Assuming that the altimeter subscale setting remains unchanged at 968 hPa, the height of the aircraft above the surface at B will be**

---

- a) 6146 FT
- b) 7446 FT
- c) 4854 FT
- d) 6796 FT

**53. An aircraft in state of emergency shall squawk:**

---

- a) 6700
- b) 7700
- c) 7500
- d) 7600

**54. Flight safety messages are:**

---

- a) Messages concerning the safety of an aircraft, a vessel, any other vehicle or a person.
- b) Operation messages concerning non-routine landings.
- c) Messages relating to direction finding.
- d) Air traffic control messages.

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**55. Refer to CAP698 Section 3 - MEP1 Figure 3.1 Normal Procedure Given: OAT 24 °C Pressure Altitude: 3000 ft RWY 30R Wind: 060/04 KT Take-off Mass: 3800 lbs Other conditions as associated in the header of the graph. What is the Ground Roll Distance under the conditions given?**

---

- a) 1670 ft
- b) 2000 ft
- c) 1780 ft
- d) 2150 ft

**56. The duration of civil twilight is the time:**

---

- a) Needed by the Sun to move from the apparent height of 0° to the apparent height of 6°
- b) Agreed by the international aeronautical authorities which is 12 minutes
- c) Between sunset and when the centre of the Sun is 12° below the true horizon
- d) Between sunset and when the centre of the Sun is 6° below the true horizon

**57. How should aircraft XY-ABC call Stephenville TOWER on initial call ?**

---

- a) Stephenville TOWER XY-ABC
- b) TOWER XY-ABC
- c) Stephenville XY-ABC
- d) Stephenville TOWER X-BC

**58. 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

**59. What does the abbreviation 'ATIS' mean?**

---

- a) Airport terminal information service
- b) Automatic terminal information service
- c) Air traffic information service
- d) Automatic terminal information system

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## 60. A ring laser gyro can measure:

- a) Rotation in all directions.
- b) Accelerations about its sensitive axis.
- c) Accelerations in all direction.
- d) Rotation about its sensitive axis.

## 61. The advantages of Nickel-Cadmium compared with lead-acid batteries are:1. lower risk of thermal runaway2. higher internal resistance, hence higher power3. reduced charging time4. constant output voltageThe combination which regroups all the correct statements is:

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

## 62. What does the abbreviation 'INS' mean:

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

## 63. A departing aircraft experiencing radio communication failure on an IFR flight under radar vectors has to:

- a) Squawk 7600 and thereafter return to the route indicated in the current flight plan in the most direct manner
- b) Squawk 7600 and thereafter, regardless of any limitation instructed by ATC, return to the route indicated in the current flight plan on the shortest way
- c) Squawk 7600, maintain present heading for 1 minute and thereafter return to the route indicated in the current flight plan on the shortest way
- d) Squawk 7600 and maintain the heading last assigned by ATC for a period of 3 minutes and then return to the flight path in accordance with the current flight plan

## 64. A course of 120°(T) is drawn between 'X' (61°30'N) and 'Y' (58°30'N) on a Lambert Conformal conic chart with a scale of 1: 1 000 000 at 60°N.The chart distance between 'X' and 'Y' is:

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

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---

**65. The use of professional languages offers:**

- a) Longer attention span
- b) More precise meaning
- c) Quick comprehension and simplified grammar
- d) Better communication even if professionals are not from the same field

---

**66. The final reserve fuel for aeroplanes with turbine engines is**

- a) Fuel to fly for 30 minutes at holding speed at 1500 ft (450 m) above aerodrome elevation in standard conditions.
- b) Fuel to fly for 60 minutes at holding speed at 1500 ft (450 m) above aerodrome elevation in standard conditions.
- c) Fuel to fly for 45 minutes at holding speed at 1000 ft (300 m) above aerodrome elevation in standard conditions.
- d) Fuel to fly for 45 minutes at holding speed at 1500 ft (450 m) above aerodrome elevation in standard conditions.

---

**67. 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

---

**68. With what type of cloud is heavy precipitation unlikely during the summer months ?**

- a) CB, ST
- b) NS, CC
- c) SC, AS
- d) AS, NS

---

**69. When an aeroplane is flying at an airspeed which is 1.3 times its basic stalling speed, the coefficient of lift as a percentage of the maximum lift coefficient (CLmax) would be:**

- a) 130%
- b) 169%
- c) 59%
- d) 77%

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## 70. Basic Empty Mass is:

---

- a) Dry Operating Mass minus fuel load.
- b) Dry Operating Mass minus traffic load.
- c) A component of Dry Operating Mass.
- d) The actual take-off mass minus traffic load.

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