

Exam simulation

ATPL - Airline Transport Pilot license - VFR Communications



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STUDENT NAME:

DATE AND TIME:

01. The greater the pressure gradient the

- a) Further the isobars will be apart and the weaker the wind
- b) Closer the isobars and the lower the temperatures
- c) Closer the isobars and the stronger the wind
- d) Further the isobars will be apart and the higher the temperature

02. The apparent wander of a directional gyro is 15°/h:

- a) At the latitude 45°
- b) At the latitude 30°
- c) At the equator
- d) At the North pole

03. The function of a NOT logic gate within a circuit is to:

- a) Ensure The Input Signal Is Ac Only.
- b) Ensure the input signal is DC only.
- c) Ensure the output signal is of the same state as the input signal.
- d) Invert the input signal such that the output is always of the opposite state.

04. Cold air pools

- a) Can easily be recognized on synoptic surface charts
- b) Only occur at mid-latitudes
- c) Are most evident in the temperature and wind fields of the upper levels
- d) Only occur in winter

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05. The determination of the maximum mass on brake release, of a certified turbojet aeroplane with 5°, 15° and 25° flap angles on take-off, leads to the following values: Flap angle: 5° 15° 25° Runway limitation (kg): 66000 69500 71500 2nd segment climb limitation: 72200 69000 61800 Wind correction: Headwind: +120 kg / KT Tailwind: -360 kg / KT Given that the tailwind component is equal to 5 KT, the maximum mass on brake release and corresponding flap angle will be:

- a) 69000 kg / 15 deg
- b) 67700 kg / 15 deg
- c) 69700 kg / 25 deg
- d) 72200 kg / 5 deg

06. The Maximum Zero Fuel Mass is the mass of the aeroplane with no usable fuel on board. It is a limitation which is:

- a) Governed by the requirements of the centre of gravity limits and the structural limits of the aeroplane.
- b) Tabulated in the Flight Manual against arguments of airfield elevation and temperature.
- c) Listed in the Flight Manual as a fixed value. It is a structural limit.
- d) Governed by the traffic load to be carried. It also provides protection from excessive 'wing bending'.

07. How does a NAVSTAR/GPS satellite navigation system receiver recognise which of the received signals belongs to which satellite?

- a) Each satellite transmits its signal, on common frequencies, with an individual Pseudo Random Noise code
- b) Each satellite transmits its signal on a separate frequency
- c) The receiver detects the direction from which the signals are received and compares this information with the calculated positions of the satellites
- d) True airspeed

08. What does the word 'negative' mean?

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

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09. An aeroplane is operated at FL 330. 22 passenger are on board. The first aid oxygen to be on board at departure shall provide breathing supply for at least:

- a) 1 passenger for the remainder of the flight after cabin depressurisation when the cabin altitude exceeds 14000 ft.
- b) No first aid required.
- c) 2 passengers for the remainder of the flight after cabin depressurisation when the cabin altitude exceeds 10000 ft.
- d) 1 passenger for the remainder of the flight after cabin depressurisation when the cabin altitude exceeds 8000 ft.

10. Raising the sensory threshold of a sensory organ means:

- a) A greater sensitivity
- b) A lesser sensitivity
- c) A lesser selectivity
- d) A greater selectivity

11. When completing an ATC flight plan for a flight commencing under IFR but possibly changing to VFR, the letters entered in Item 8 (FLIGHT RULES) would be:

- a) G
- b) N/S
- c) X
- d) Y

12. The Zero Fuel Mass and the Dry Operating Mass

- a) Differ by the sum of the mass of usable fuel plus traffic load mass.
- b) Are the same value.
- c) Differ by the mass of usable fuel.
- d) Differ by the value of the traffic load mass.

13. Which word or phrase shall be used if you want to say: 'Reduce your rate of speech'?

- a) Repeat
- b) Words twice
- c) Say again
- d) Speak slower

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14. Which statement, in relation to the climb limited takeoff mass of a jet aeroplane, is correct?

- a) The climb limited takeoff mass is determined at the speed for best rate of climb
- b) The climb limited takeoff mass decreases with increasing OAT
- c) On high elevation airports equipped with long runways the aeroplane will always be climb limited
- d) 50% of a head wind is taken into account when determining the climb limited takeoff mass

15. The bank angle in a rate-one turn depends on:

- a) Weight.
- b) TAS.
- c) Wind.
- d) Load factor.

16. During a flight to Europe, scheduled in MNPS (Minimum Navigation Performance Specification) airspace, you expect to cross the 30°W meridian at 0300 UTC

- a) You will normally be:
- b) Outside the validity period of the organised track system.
- c) In a night-time organised track system.
- d) Within the polar track system.

17. Which take-off speed is affected by the presence or absence of stopway and / or clearway?

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

18. An aeroplane whose maximum approved passenger seating configuration is 31 to 60 seats must be equipped with at least:

- a) 4 hand fire-extinguishers conveniently located in the passenger compartment.
- b) 3 hand fire-extinguishers conveniently located in the passenger compartment.
- c) 5 hand fire-extinguishers conveniently located in the passenger compartment.
- d) 2 hand fire-extinguishers conveniently located in the passenger compartment.

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19. The priority of the pilot's message 'request QDM' is:

- a) Less than 'request climb to flight level...'
- b) Greater than 'turn left heading...'
- c) Same as 'latest QNH 1018'.
- d) Less than 'descend to flight level...'

20. An aeroplane with a two wheel nose gear and four main wheels rests on the ground with a single nose wheel load of 500 kg and a single main wheel load of 6000 kg. The distance between the nose wheels and the main wheels is 10 m. How far is the centre of gravity in front of the main wheels?

- a) 40 cm
- b) 41.6 cm
- c) 4 m
- d) 25 cm

21. The Trip Fuel for a jet aeroplane to fly from the departure aerodrome to the destination aerodrome is 5 350 kg. Fuel consumption in holding mode is 6 000 kg/h. The quantity of fuel which is needed to carry out one go-around and land on the alternate airfield is 4 380 kg. The destination aerodrome has a single runway. What is the minimum quantity of fuel which should be on board at take-off?

- a) 13 000 kg
- b) 13 230 kg
- c) 11 730 kg
- d) 14 730 kg

22. The torque effect during the take off run in respect of a right hand propeller, when viewed from behind, will tend to:

- a) Roll the aeroplane to the right
- b) Pitch the aeroplane nose down
- c) Pitch the aeroplane nose up
- d) Roll the aeroplane to the left

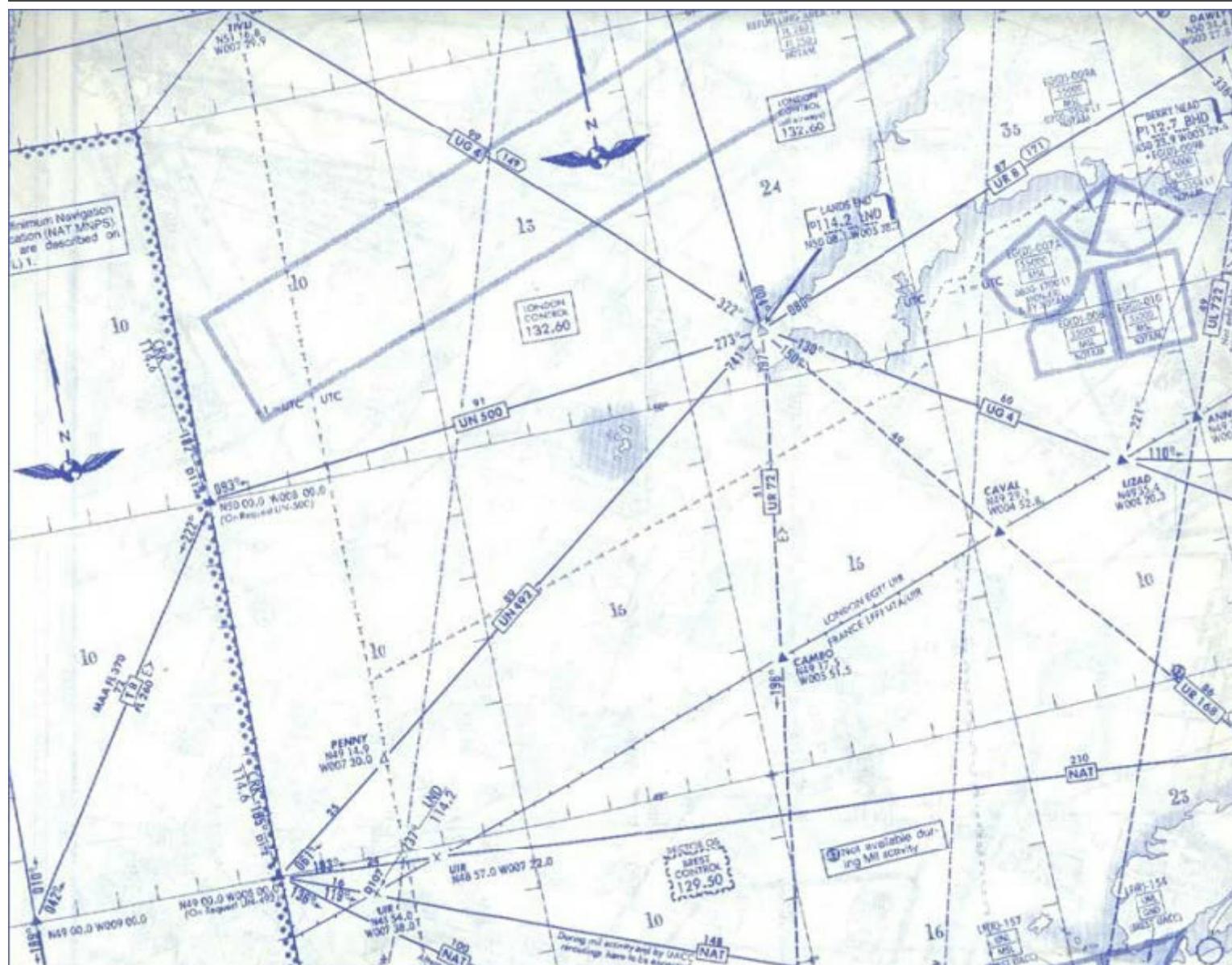
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23. The magnetic heading of an aircraft is 040° . On the Airborne Weather Radar display the relative bearing of and the distance to the most southerly part of Lands End (approximate position: $50^\circ 03'N$, $005^\circ 40'W$) are, $030^\circ R$ and 80 NM. What is the position of the aircraft based on these observations? The slant range correction and the map convergency between aircraft position and lands end may be neglected.



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24. 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]

25. In a generator, the Constant Speed Drive (CSD) 1- may be disconnected from the engine shaft. 2- may be disconnected from the generator. 3- is a hydro-mechanical system. 4- is an electronic system. 5- may not be disconnected in flight. 6- may be disconnected in flight The combination regrouping all the correct statements is:

- a) 1, 2, 2005
- b) 2, 3, 2004
- c) 1, 3, 6
- d) 1, 4, 2005

26. The lift formula is: (rho = density)

- a) $L = CL \frac{1}{2} \rho V^2 S$
- b) $L = n W$
- c) $L = CL 2 \rho V^2 S$
- d) $L = W$

27. In a stationary subsonic streamline flow pattern, if the streamlines converge, in this part of the pattern, the static pressure (I) will ...and the velocity (II) will ...:

- a) (I) decrease, (II) decrease.
- b) (I) increase, (II) increase.
- c) (I) increase, (II) decrease.
- d) (I) decrease, (II) increase.

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28. The holder of a pilot licence when acting as co-pilot performing under the supervision of the pilot in command the functions and duties of a pilot in command shall be entitled to be credit:

- a) The flight time towards the total time required for higher grade of pilot licence in accordance with the requirements of the licensing authority
- b) In full with his flight but not more than 300 hours towards the total time required for a higher grade of pilot licence
- c) 50% of his flight time towards the total time required for higher grade of pilot licence
- d) In full with his flight time towards the total time required for higher grade of pilot licence

29. 'TODA' take-off distance available is:

- a) The length of the runway available plus the length of clearway available (if provided).
- b) The length of the take-off run available plus the length of the stop way and clearway (if provided).
- c) The length of the take-off run available plus the length of clearway available (if provided).
- d) The length of the take-off run available plus the length of the stop way.

30. An aeroplane executes a steady glide at the speed for minimum glide angle. If the forward speed is kept constant, what is the effect of a lower mass? Rate of descent / Glide angle / CL / CD ratio

- a) Increases / increases / decreases
- b) Increases / constant / increases
- c) Increases / increases / constant
- d) Decreases / constant / decreases

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

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

32. At the commencement of final approach, if the controller possesses wind information in the form of components, significant changes in the mean surface wind direction and speed shall be transmitted to aircraft. The mean head-wind component significant change is:

- a) 5 KT
- b) 8 KT
- c) 10 KT
- d) 4 KT

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33. An aeroplane suffers an explosive decompression at an altitude of 31000 ft . What is the initial action by the operating crew ?

- a) To put on oxygen masks
- b) Place the seat belts sign to ON
- c) Transmit a MAYDAY message
- d) Disconnect the autopilot

34. The rate-of-turn is the:

- a) Yaw rate in a turn
- b) Aircraft speed in a turn
- c) Change-of-heading rate of the aircraft
- d) Pitch rate in a turn

35. In accordance with IR-OPS an operator must ensure that the lowest MDH for a NDB approach without CDFA technique shall not be lower than:

- a) 300 ft
- b) 250 ft
- c) 350 ft
- d) 200 ft

36. What does the expression 'Broken (BKN)' mean?

- a) 3-4 eighths of the sky is cloud covered
- b) 3-5 eighths of the sky is cloud covered
- c) 5-7 eighths of the sky is cloud covered
- d) Nil significant cloud cover

37. The principle of FAIL SAFE design of an aircraft is based on the:

- a) Replacement Of Parts After A Given Number Of Cycles Or Hours Of Use.
- b) Redundancy of the structure or equipment.
- c) Capability to withstand a certain amount of weakening of the structure without catastrophic failure.
- d) Monitoring Of Critical Parameters And The Replacement Of Parts If A Limit Value Is Exceeded.

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38. The operator must ensure that the mass and balance documentation of a flight is stored for a minimum period of:

- a) 3 months
- b) 1 year
- c) 6 months
- d) 1 month

39. Which of the following three speeds of a jet aeroplane are basically identical? The speeds for:

- a) Maximum drag, maximum endurance and maximum climb angle
- b) Maximum range, minimum drag and minimum glide angle
- c) Holding, maximum climb angle and minimum glide angle
- d) Maximum climb angle, minimum glide angle and maximum range

40. The fuselage structure of a pressurised transport aeroplane is an example of a:

- a) Semi-monocoque structure.
- b) Truss type structure.
- c) Pure monocoque structure.
- d) Sandwich Structure.

41. Which of the following statements is true with regard to a mature thunderstorm:

- a) The cloud top assumes anvil shaped.
- b) Both up-currents and down-currents appear concurrently.
- c) The top of the cloud is negatively charged and the base is positively charged.
- d) Water droplets, hail and snow are all present.

42. When an aircraft is experiencing difficulties, triggering of the alert phase is the responsibility of

- a) Air traffic control and flight information centres.
- b) Air traffic coordination centres.
- c) Control centres only.
- d) Search and rescue coordination centres.

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43. 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

44. 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°.

45. How does the best angle of climb and best rate of climb vary with increasing altitude for an aeroplane with a normal aspirated piston engine?

- a) Both increase
- b) Best angle of climb increases while best rate of climb decreases
- c) Both decrease
- d) Best angle of climb decreases while best rate of climb increases

46. Which of the following statements, concerning the obstacle limited take-off mass for performance class A aeroplane, is correct?

- a) It should be calculated in such a way that there is a margin of 50 ft with respect to the 'net take off flight path'
- b) It should not be corrected for 30° bank turns in the take-off path
- c) It cannot be lower than the corresponding climb limited take-off mass
- d) It should be determined on the basis of a 35 ft obstacle clearance with the respect to the 'net take- off flight path'

47. Given: True HDG = 133°, TAS = 225 kt, Track (T) = 144°, GS = 206 kt. Calculate the W/V?

- a) 075/45kt
- b) 075/50kt
- c) 070/45kt
- d) 070/40kt

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48. For an operation in MNPS airspace along notified special routes, unless otherwise specified, an aircraft must be equipped with at least:

- a) Two Inertial Navigation Systems (INS)
- b) Three Inertial Navigation System (INS)
- c) Two independent Long Range Navigation Systems (LRNS)
- d) One Long Range Navigation System (LNRS)

49. 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.

50. Overloading has the following effects on performance:

- a) Reduced take off and landing distance, increased VNE and increased fuel consumption
- b) Increased take off and landing distance, increased rate of climb and increased fuel consumption
- c) Reduced take off and landing distance, increased VNE and reduced rate of climb
- d) Increased take off and landing distance, reduced rate of climb and increased fuel consumption

51. 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.

52. An aircraft in the northern hemisphere makes an accurate rate one turn to the right. If the initial heading was 330°, after 30 seconds of the turn the direct reading magnetic compass should read:

- a) Less than 060°.
- b) More or less than 060° depending on the pendulous suspension used.
- c) 060°.
- d) More than 060°.

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53. Maintaining CAS and flight level constant, a fall in ambient temperature results in:

- a) Lower TAS because air density decreases
- b) Lower TAS because air density increases
- c) Higher TAS because air density decreases
- d) Higher TAS because air density increases

54. In a hydraulic system the master cylinder's inner area is 10 mm², and the actuator cylinder's inner area is 100 mm². If you press the master cylinder by 2 cm using a 100 N force, the actuator cylinder will move:

- a) 2 mm and produce a force of 1000 N.
- b) 2 mm and produce a force of 100 N.
- c) 1 mm and produce a force of 500 N.
- d) 2 cm and produce a force of 100 N.

55. The moment for an item is

- a) The mass of the item divided by its distance from the datum
- b) The mass of the item multiplied by its distance from the datum
- c) The square of the distance the item is from the datum divided by its mass
- d) The distance the item is from the datum divided by its mass

56. An advantage of locating the engines at the rear of the fuselage, in comparison to a location beneath the wing, is:

- a) Easier maintenance of the engines.
- b) A wing which is less sensitive to flutter.
- c) Less influence of thrust changes on longitudinal control.
- d) Less influence on lateral/directional stability characteristics such as dutch roll.

57. Which of the following correctly describes the Instrument Landing System (ILS) localiser radiation pattern?

- a) A pencil beam comprising a series of smaller beams each carrying a different modulation
- b) Two overlapping lobes on the same UHF carrier frequency
- c) Two overlapping lobes on different radio carrier frequencies but with the same modulation
- d) Two overlapping lobes on the same VHF carrier frequency

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58. What does the abbreviation 'H24' mean?

- a) Sunrise to sunset
- b) Continuous day and night service
- c) No specific working hours
- d) Sunset to sunrise

59. The limits of the yellow scale of an airspeed indicator are:

- a) VLO for the lower limit and VNE for the upper limit
- b) VNO for the lower limit and VNE for the upper limit
- c) VFE for the lower limit and VNE for the upper limit
- d) VLE for the lower limit and VNE for the upper limit

60. In relation to the satellite navigation system NAVSTAR/GPS, which of the following statements correctly describes the term 'Pseudo Random Noise (PRN)' signal?

- a) PRN is the atmospheric jamming that affects the signals transmitted by the satellites
- b) PRN describes the continuous electro-magnetic background noise that exists in space
- c) PRN is a code used for the identification of the satellites and the measurement of the time taken by the signal to reach the receiver
- d) PRN occurs in the receiver. It is caused by the signal from one satellite being received from different directions (multipath effect)

61. The command bars of a flight director:

- a) Are displayed only when flying manually.
- b) Are displayed only when the autopilot is engaged.
- c) May be displayed when flying manually or with the autopilot engaged.
- d) Are always displayed during take-off.

62. A slotted flap will increase the CLmax by:

- a) Decreasing the skin friction
- b) Increasing the camber of the aerofoil and re-energising the airflow
- c) Increasing the critical angle of attack
- d) Increasing only the camber of the aerofoil

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63. Which of the following is unlikely to have any effect on the position of the centre of gravity on an aeroplane in flight ?

- a) Changing the tailplane (horizontal stabiliser) incidence angle.
- b) Normal consumption of fuel for a swept wing aeroplane.
- c) Movement of cabin attendants going about their normal duties.
- d) Lowering the landing gear.

64. Mass-balancing of control surfaces is used to:

- a) Limit the stick forces.
- b) Ensure that the control surfaces are in the mid-position during taxiing .
- c) Prevent flutter of control surfaces
- d) Increase the stick force stability.

65. The amplitude modulation and the colour of an outer marker (OM) is:

- a) 3000 Hz, blue
- b) 400 Hz, blue
- c) 400 Hz, amber
- d) DME callsign was not transmitted, the distance information is sufficient proof of correct operation

66. What do you do, when you are affected by 'pilot's vertigo'?1. Establish and maintain an effective instrument cross-check.2. Believe the instruments.3. Ignore illusions.4. Minimize head movements.

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

67. 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

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68. An airspeed indicator displays:

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

69. In order to align an IRS, it is required to insert the local geographical coordinates. This enables the IRS to:
1 - compare the computed latitude with the one entered by the pilot
2 - compare the computed longitude with the one entered by the pilot
3 - know the longitude
The combination that regroups all of the correct statements is:

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

70. The Dry Operating Mass includes:

- a) Crew and crew baggage, catering, removable passenger service equipment, potable water and lavatory chemicals.
- b) Passengers baggage and cargo.
- c) Fuel and passengers baggage and cargo.
- d) Unusable fuel and reserve fuel.

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Response Scheme

Compare your answers with the following diagram and mark your score!

01: **C**

02: **D**

03: **D**

04: **C**

05: **B**

06: **C**

07: **A**

08: **D**

09: **D**

10: **B**

11: **D**

12: **D**

13: **D**

14: **B**

15: **B**

16: **B**

17: **A**

18: **D**

19: **B**

20: **A**

21: **B**

22: **D**

23: **B**

24: **D**

25: **C**

26: **A**

27: **D**

28: **D**

29: **C**

30: **A**

31: **B**

32: **C**

33: **A**

34: **C**

35: **C**

36: **C**

37: **B**

38: **A**

39: **C**

40: **A**

41: **B**

42: **A**

43: **D**

44: **C**

45: **C**

46: **D**

47: **A**

48: **D**

49: **D**

50: **D**

51: **C**

52: **A**

53: **B**

54: **A**

55: **B**

56: **C**

57: **D**

58: **B**

59: **B**

60: **C**

61: **C**

62: **B**

63: **A**

64: **C**

65: **B**

66: **A**

67: **C**

68: **B**

69: **D**

70: **A**

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Response form

Use this form to mark your answers

01: _____

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