

# Exam simulation

ATPL - Airline Transport Pilot license - VFR Communications



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STUDENT NAME:

DATE AND TIME:

**01. A parcel of unsaturated air is forced to rise through an isothermal layer. So long as it remains unsaturated, the temperature of the parcel**

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- a) Remains constant
- b) Decreases 0.65°C per 100 m
- c) Decreases 1°C per 100 m
- d) Becomes equal to the temperature of the isothermal layer

**02. What is meant by the phrase 'readability 2'?**

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- a) Readable
- b) Readable now and then
- c) Readable but with difficulty
- d) Unreadable

**03. Precision RNAV (P-RNAV) requires a track-keeping accuracy of:**

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- a)  $\pm 10.0\text{nm}$  for 95% of the flight time.
- b)  $\pm 5.0\text{nm}$  for 95% of the flight time.
- c)  $\pm 1.0\text{nm}$  for 95% of the flight time.
- d)  $\pm 8.0\text{nm}$  for 95% of the flight time.

**04. The clearance: 'cleared for immediate take-off runway 03' is:**

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- a) An urgency message.
- b) An unauthorized message.
- c) A flight safety message.
- d) A flight regularity message.

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## 05. Regarding the operating system used for an on-board documentation (charts and company information):

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- a) There are no certification requirements
- b) The certification requirements are detailed in EUROCAE standards
- c) The certification requirements are detailed in CS-25/2
- d) The certification requirements are detailed in PART-CAT

## 06. Given: Maximum structural take-off mass= 146 900 kg Maximum structural landing mass= 93 800 kg Maximum zero fuel mass= 86 400 kg. Trip fuel= 27 500 kg. Block fuel= 35 500 kg. Engine starting and taxi fuel = 1 000 kg. The maximum take-off mass is equal to:

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- a) 113 900 kg
- b) 121 300 kg
- c) 120 300 kg
- d) 120 900 kg

## 07. When determining the maximum landing mass of a turbojet powered aeroplane during the planning phase what factor must be used on the landing distance available (dry runway)

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- a) 115/100
- b) 1.67
- c) 0.60
- d) 60/115

## 08. The function of the generator breaker is to close when the voltage of the:

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- a) Battery is greater than the generator voltage and to open when the opposite is true.
- b) Generator is greater than battery voltage and to open when the opposite is true.
- c) Battery is greater than the alternator voltage and to open when the opposite is true.
- d) Alternator is greater than the battery voltage and to open when the opposite is true.

## 09. Which of the following statements is true of the dew point of an air mass?

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- a) It can be higher than the temperature of the air mass
- b) It can be used together with the air pressure to estimate the air mass's relative humidity
- c) It can only be equal to, or lower, than the temperature of the air mass
- d) It can be used to estimate the air mass's relative humidity even if the air temperature is unknown

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**10. When an aircraft subjected to an unlawful interference has landed it shall notify by the most expeditious means of the State of registry of the aircraft and the State of the operator of the landing and shall similarly transmit all other relevant information to the:**

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- a) Two aforementioned States, each State whose citizens suffered fatalities or injuries, each State whose citizens are known to be on board the aircraft and the ICAO
- b) Two aforementioned States and the ICAO
- c) Two aforementioned States, each State whose citizens suffered fatalities or injuries, each State whose citizens were detained as hostages, each State whose citizens are known to be on board the aircraft and the ICAO
- d) Two aforementioned States, each State whose citizens suffered fatalities or injuries on board the aircraft and the ICAO

**11. In a hydraulic system the master cylinder's inner area is 10 mm<sup>2</sup>, and the actuator cylinder's inner area is 100 mm<sup>2</sup>. If you press the master cylinder by 2 cm using a 100 N force, the actuator cylinder will move:**

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- 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.

**12. Given: Pressure Altitude 29000 FT, OAT -55°C. Calculate the Density Altitude?**

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- a) 33500 FT
- b) 31000 FT
- c) 26000 FT
- d) 27500 FT

**13. Flying at pressure altitude of 10 000 ft, a pilot, being a moderate to heavy smoker, has an oxygen content in the blood equal to an altitude**

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- a) Above 10 000 FT
- b) Of 15000 FT when breathing 100% oxygen
- c) Lower than 10 000 FT
- d) Of 10 000 FT

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**14. 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'?**

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- a) 1115 UTC
- b) 1050 UTC
- c) 1044 UTC
- d) 1110 UTC

**15. What are the various factors which guide attention? 1. The level of automation of behaviour 2. Response time 3. The salience of the information 4. Expectations**

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

**16. Large hail stones**

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- a) Only occur in thunderstorms of mid-latitudes
- b) Are typically associated with severe thunderstorms
- c) Only occur in frontal thunderstorms
- d) Are entirely composed of clear ice

**17. The convention signed by the states and moved by a desire to ensure adequate compensation for persons who suffer damage caused on the surface by foreign aircraft is:**

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- a) The Warsaw Convention
- b) The Rome Convention
- c) The Tokyo Convention
- d) The Paris Convention

**18. What colour streamer identifies medical supplies dropped to survivors?**

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- a) Yellow
- b) Blue
- c) Black
- d) Red

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**19. Which of the following data, in addition to the Pseudo Random Noise (PRN) code, forms part of the so called 'Navigation Message' transmitted by NAVSTAR/GPS satellites?**

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- a) Time
- b) Data to impair the accuracy of the position fix
- c) Almanac data
- d) Data to correct receiver clock error; almanac data

**20. The 'Aerodrome Reference Code' is a code composed of two elements which are related to the aeroplane performance characteristics and dimensions. These elements are a combination of a number and a letter as in the example under listed:**

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- a) 5E.
- b) 6
- c) 4F.
- d) 4F. 2

**21. What is the minimum field length required for the worst wind situation, landing a twin jet aeroplane with the anti-skid inoperative? Elevation: 2000 ft QNH: 1013 hPa Landing mass: 50 000 kg Flaps: as required for minimum landing distance Runway condition: dry Wind: Maximum allowable tailwind: 15 kt Maximum allowable headwind: 50 kt**

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- a) 2600 m.
- b) 3100 m.
- c) 2900 m.
- d) 2700 m.

**22. What is the transponder code for radio communication failure:**

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

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

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- 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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**24. On The Earth's ellipsoid one degree of latitude near the equator is:**

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- a) 60 NM.
- b) More than 60 NM but less than 61 NM.
- c) More than 60 NM.
- d) Less than 60 NM.

**25. What action is required by the pilot of an aircraft station if he/she is unable to establish radio contact with an aeronautical station?**

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- a) Try to establish communication with other aircraft or aeronautical stations
- b) Land at the nearest aerodrome appropriate to the route of flight
- c) Squawk mode A code 7500
- d) Divert to the alternate airport

**26. Given: Distance from departure to destination: 2000 NM Endurance: 5 h TAS: 500 kt Ground Speed Out: 480 kt Ground Speed Home: 520 kt. What is the distance of the PSR from the departure point?**

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- a) 1248 NM
- b) 752 NM
- c) 624 NM
- d) 1040 NM

**27. Generally northern hemisphere winds at 5000 FT/AGL are south-westerly while most of the surface winds are southerly. What is the primary reason of difference between these two wind directions?**

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- a) Friction between the wind and the surface.
- b) The influence of warm air at the lower altitude.
- c) Stronger Coriolis force at the surface.
- d) A strong pressure gradient at higher altitudes.

**28. The maximum permissible take-off mass of an aircraft for the L wake turbulence category on an ATC flight plan is:**

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- a) 2 700 kg
- b) 7 000 kg
- c) 10 000 kg
- d) 5 700 kg

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## 29. TCAS II (Traffic Collision Avoidance System) uses for its operation:

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- a) The echoes from the ground air traffic control radar system.
- b) The echoes of collision avoidance radar system especially installed on board.
- c) The replies from the transponders of other aircraft.
- d) Both the replies from the transponders of other aircraft and the ground-based radar echoes.

## 30. For a non pressurised aircraft, all occupants of flight deck seats on flight deck duty shall be supplied with supplemental oxygen during:

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- a) The entire flight time at pressure altitudes above 13 000 ft and for any period exceeding 30 minutes at pressure altitudes above 10 000 ft but not exceeding 13 000 ft
- b) The entire flight time at pressure altitudes above 13 500 ft
- c) The entire flight time after 30 minutes at pressure altitudes greater than 10 000 ft but not exceeding 13 000 ft
- d) The entire flight time at pressure altitudes above 10 000 ft

## 31. Over Madrid, what intensity of turbulence and icing is forecast at FL 200?

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- a) Severe turbulence, moderate icing
- b) Moderate turbulence, light icing
- c) Severe turbulence, severe icing
- d) Moderate turbulence, moderate icing

## 32. Given: Distance from departure to destination: 210 NM Endurance: 3,5 h True Track: 310 W/V: 270/30 TAS: 120 kt What is the distance of the PSR from the departure point?

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- a) 200 NM
- b) 10 NM
- c) 100 NM
- d) 125 NM

## 33. What is a practical advantage of the NAVSTAR/GPS 'All in View' receiver technique?

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- a) Is receiving the signals of all visible satellites but tracking only those of the 4 with the best geometric coverage
- b) Is receiving and tracking the signals of all 24 operational satellites simultaneously
- c) Is tracking more than the required 4 satellites and can instantly replace any lost signal with another already being monitored
- d) Requires the signals of all visible satellites for navigation purposes

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## 34. A load placed forward of the datum

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- 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

## 35. AIP Which part of the AIP contains information relating to existing prohibited, restricted and danger areas?

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- a) GEN
- b) AD
- c) ENR
- d) The AIP does not contain this information

## 36. The connection in parallel of two 12 volt / 40 Ah batteries, will create a unit with the following characteristics:

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- a) 12 volt / 40 Ah
- b) 24 volt / 40 Ah
- c) 24 volt / 80 Ah
- d) 12 volt / 80 Ah

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

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

## 38. What are, in order of highest priority followed by lowest, the two levels of message produced by the CDU of the modern transport aircraft Electronic Flight Instrument System?

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- a) Priority and Alerting
- b) Urgent and Routine
- c) Urgent and Advisory
- d) Alerting and Advisory

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## 39. The function of the selector valve is to:

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- a) Select the system to which the hydraulic pump should supply pressure.
- b) Communicate system pressure to either side of an actuator.
- c) Discharge some hydraulic fluid if the system pressure is too high.
- d) Automatically activate the hydraulic system.

## 40. In producing chart projections, the following projection surfaces may be used:

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- a) Plane, sphere, cone.
- b) Plane, cylinder, cone.
- c) Parabola, cone, plane, cylinder.
- d) Cylinder, sphere, plane.

## 41. The centre of gravity of a body is that point

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- a) Where the sum of the moments from the external forces acting on the body is equal to zero
- b) Through which the sum of the forces of all masses of the body is considered to act
- c) Which is always used as datum when computing moments
- d) Where the sum of the external forces is equal to zero

## 42. When flaps are deployed at constant angle of attack the lift coefficient will:

---

- a) Increase
- b) Vary as the square of IAS
- c) Remain the same
- d) Decrease

## 43. Oxygen systems are systems used on pressurized aeroplanes in 1. an emergency in the case of depressurization. 2. an emergency in the case of the indisposition of a passenger. 3. normal use in order to supply oxygen to the cabin. 4. an emergency in the case of smoke or toxic gases The combination regrouping all the correct statements is:

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

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**44. During deceleration following a landing in a westerly direction, a magnetic compass made for the northern hemisphere indicates:**

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- a) A heading fluctuating about  $270^\circ$ .
- b) An apparent turn to the north.
- c) An apparent turn to the south.
- d) No apparent turn.

**45. Under which of the following circumstances shall an aircraft station squawk 7600?**

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- a) When entering bad weather areas
- b) In case of radio communication failure
- c) When flying over desert areas
- d) When approaching a prohibited area

**46. The spin axis of the turn indicator gyroscope is parallel to the:**

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- a) Pitch axis.
- b) Yaw axis.
- c) Roll axis.
- d) Longitudinal axis.

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

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

**48. The angle between Magnetic North and Compass North is called:**

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- a) Magnetic variation
- b) Compass error
- c) Compass deviation
- d) Alignment error

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## 49. The command bars of a flight director:

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- 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.

## 50. On a Lambert conformal conic chart the convergence of the meridians:

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- a) Varies as the secant of the latitude
- b) Is zero throughout the chart
- c) Equals earth convergence at the standard parallels
- d) Is the same as earth convergence at the parallel of origin

## 51. What approximate rate of descent is required in order to maintain a 3° glide path at a groundspeed of 120 kt?

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- a) 600 FT/MIN
- b) 950 FT/MIN
- c) 800 FT/MIN
- d) 550 FT/MIN

## 52. The deviation of the magnetic compass is due to the action of:

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- a) The hard iron pieces influenced by the geomagnetic field
- b) The hard iron pieces and the soft iron pieces influenced by the hard iron pieces
- c) The hard iron pieces influenced by the mild iron pieces
- d) The soft iron pieces influenced by the geomagnetic field

## 53. Which abbreviation is used for 'Coordinated Universal Time'?

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- a) GMT
- b) CUT
- c) COUT
- d) UTC

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## 54. The North Atlantic airspace is regulated according to:

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- a) Rules issued by the bordering States (document 6530)
- b) Rules common to the bordering States, grouped in document 7050 (North Atlantic Ocean Airspace)
- c) The ICAO document 7030 (additional regional procedures)
- d) Canadian rules, because this country has the greatest surface area of territorial waters in this airspace

## 55. VLE is defined as the:

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- a) Maximum flap extended speed.
- b) Maximum speed at which the landing gear may be extended or retracted.
- c) Maximum authorised speed.
- d) Maximum landing gear extended speed.

## 56. A TCAS II (Traffic Collision Avoidance System) provides:

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- a) A simple intruding aeroplane proximity warning.
- b) The intruder relative position and possibly an indication of a collision avoidance manoeuvre within the vertical plane only.
- c) The intruder relative position and possibly an indication of a collision avoidance manoeuvre within the horizontal plane only.
- d) The intruder relative position and possibly an indication of a collision avoidance manoeuvre within both the vertical and horizontal planes.

**57. On a given path, it is possible to choose between four flight levels (FL), each associated with a mandatory flight Mach Number (M). The flight conditions, static air temperature (SAT) and headwind component (HWC) are given below: FL 370 - M = 0.80 Ts = -60°C HWC = -15 kt. FL 330 - M = 0.78 Ts = -60°C HWC = -5 kt. FL 290 - M = 0.80 Ts = -55°C HWC = -15 kt. FL 270 - M = 0.76 Ts = -43°C HWC = 0. The flight level allowing the highest ground speed is:**

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- a) FL290
- b) FL270
- c) FL370
- d) FL330

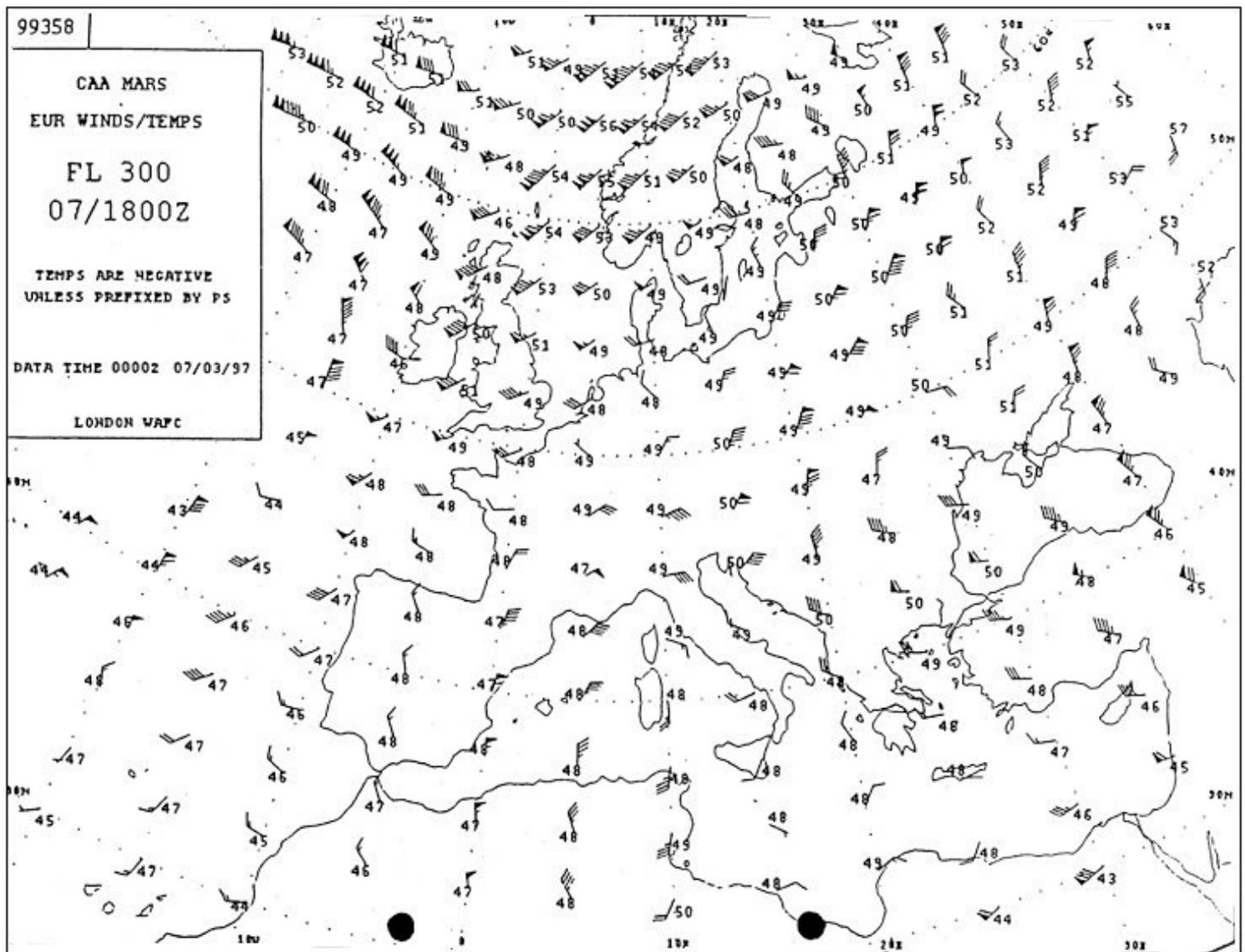
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58. What is the mean temperature deviation ( $^{\circ}\text{C}$ ) from the ISA over  $50^{\circ}\text{N}$   $010^{\circ}\text{W}$ ?



- a) +9
- b) +2
- c) +13
- d) -2

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**59. The conditions to be met to activate a shunt generator are: 1. presence of a permanent field 2. closed electrical circuit 3. generator terminals short-circuited 4. minimum rotation speed The combination of correct statements is:**

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

**60. Given: TAS = 485 kt, True HDG = 226°, W/V = 110°(T)/95kt. Calculate the drift angle and GS?**

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- a) 7°R - 531 kt
- b) 9°R - 433 kt
- c) 9°R - 533 kt
- d) 8°L - 435 kt

**61. The following parameters affect the take-off ground run: 1. decreasing take-off mass 2. increasing take-off mass 3. increasing density 4. decreasing density 5. increasing flap setting 6. decreasing flap setting 7. increasing pressure altitude 8. decreasing pressure altitude. Which parameters will decrease the take-off ground run?**

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- a) 2, 4, 5 and 7
- b) 1, 4, 6 and 8
- c) 2, 3, 6 and 7
- d) 1, 3, 5 and 8

**62. Given: FL 330 long range cruise OAT -63°C gross mass 50 500 kg. Find: true airspeed (TAS)**

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| All Engines       |                                       | Maximum Cruise Thrust Limits       |      |      |      |      |                   |      |      |      |      | A/C Auto |
|-------------------|---------------------------------------|------------------------------------|------|------|------|------|-------------------|------|------|------|------|----------|
| PRESSURE ALTITUDE |                                       | 33,000 ft                          |      |      |      |      | LONG RANGE CRUISE |      |      |      |      |          |
| GROSS<br>WT. kg   | 0 100 200 300 400 500 600 700 800 900 |                                    |      |      |      |      |                   |      |      |      |      |          |
|                   | TAS                                   | CRUISE DISTANCE NAUTICAL AIR MILES |      |      |      |      |                   |      |      |      |      |          |
| 35000             | 400                                   | 0                                  | 23   | 46   | 69   | 92   | 115               | 138  | 161  | 184  | 207  |          |
| 36000             | 405                                   | 230                                | 252  | 275  | 298  | 320  | 343               | 366  | 389  | 411  | 434  |          |
| 37000             | 408                                   | 457                                | 479  | 502  | 524  | 547  | 569               | 591  | 614  | 636  | 659  |          |
| 38000             | 412                                   | 681                                | 703  | 725  | 747  | 770  | 792               | 814  | 836  | 858  | 880  |          |
| 39000             | 415                                   | 902                                | 924  | 946  | 968  | 990  | 1012              | 1034 | 1055 | 1077 | 1099 |          |
| 40000             | 419                                   | 1121                               | 1143 | 1164 | 1186 | 1207 | 1229              | 1251 | 1272 | 1294 | 1315 |          |
| 41000             | 421                                   | 1337                               | 1358 | 1380 | 1401 | 1422 | 1444              | 1465 | 1486 | 1508 | 1529 |          |
| 42000             | 424                                   | 1550                               | 1571 | 1593 | 1614 | 1635 | 1656              | 1677 | 1698 | 1719 | 1740 |          |
| 43000             | 426                                   | 1761                               | 1782 | 1803 | 1823 | 1844 | 1865              | 1886 | 1907 | 1928 | 1948 |          |
| 44000             | 428                                   | 1969                               | 1990 | 2010 | 2031 | 2051 | 2072              | 2092 | 2113 | 2134 | 2154 |          |
| 45000             | 430                                   | 2175                               | 2195 | 2215 | 2235 | 2256 | 2276              | 2296 | 2317 | 2337 | 2357 |          |
| 46000             | 432                                   | 2377                               | 2397 | 2417 | 2437 | 2458 | 2478              | 2498 | 2518 | 2538 | 2558 |          |
| 47000             | 433                                   | 2578                               | 2597 | 2617 | 2637 | 2657 | 2677              | 2696 | 2716 | 2736 | 2756 |          |
| 48000             | 433                                   | 2775                               | 2795 | 2814 | 2834 | 2854 | 2873              | 2893 | 2912 | 2932 | 2951 |          |
| 49000             | 433                                   | 2971                               | 2990 | 3009 | 3029 | 3048 | 3067              | 3087 | 3106 | 3125 | 3144 |          |
| 50000             | 433                                   | 3164                               | 3183 | 3202 | 3221 | 3240 | 3259              | 3278 | 3297 | 3316 | 3335 |          |
| 51000             | 433                                   | 3354                               | 3373 | 3392 | 3411 | 3429 | 3448              | 3467 | 3486 | 3505 | 3523 |          |
| 52000             | 433                                   | 3542                               | 3561 | 3579 | 3598 | 3617 | 3635              | 3654 | 3672 | 3691 | 3709 |          |
| 53000             | 433                                   | 3728                               | 3746 | 3765 | 3783 | 3801 | 3819              | 3838 | 3856 | 3874 | 3893 |          |
| 54000             | 433                                   | 3911                               | 3929 | 3947 | 3965 | 3983 | 4001              | 4019 | 4038 | 4056 | 4074 |          |
| 55000             | 433                                   | 4092                               | 4110 | 4127 | 4145 | 4163 | 4181              | 4199 | 4216 | 4234 | 4252 |          |
| 56000             | 433                                   | 4270                               | 4287 | 4305 | 4323 | 4340 | 4358              | 4375 | 4393 | 4410 | 4428 |          |
| 57000             | 433                                   | 4445                               | 4463 | 4480 | 4497 | 4515 | 4532              | 4549 | 4567 | 4584 | 4601 |          |
| 58000             | 433                                   | 4619                               | 4636 | 4653 | 4670 | 4687 | 4704              | 4721 | 4738 | 4755 | 4772 |          |
| 59000             | 433                                   | 4789                               | 4806 | 4823 | 4840 | 4856 | 4873              | 4890 | 4907 | 4924 | 4940 |          |
| 60000             | 433                                   | 4957                               | 4974 | 4990 | 5007 | 5024 | 5040              | 5057 | 5073 | 5090 | 5106 |          |
| 61000             | 433                                   | 5123                               | 5139 | 5155 | 5172 | 5188 | 5204              | 5221 | 5237 | 5253 | 5270 |          |
| 62000             | 433                                   | 5286                               | 5302 | 5318 | 5334 | 5350 | 5366              | 5382 | 5398 | 5414 | 5430 |          |
| 63000             | 433                                   | 5446                               | 5462 | 5478 | 5493 | 5509 | 5525              | 5541 | 5557 | 5572 | 5588 |          |
| 64000             | 433                                   | 5604                               | 5619 | 5635 | 5650 | 5666 | 5681              | 5697 | 5712 | 5728 | 5743 |          |
| 65000             | 433                                   | 5759                               | 5774 | 5789 | 5804 | 5820 | 5835              | 5850 | 5865 | 5880 | 5896 |          |
| 66000             | 433                                   | 5911                               | 5926 | 5941 | 5956 | 5970 | 5985              | 6000 | 6015 | 6030 | 6045 |          |
| 67000             | 433                                   | 6060                               | 6075 | 6089 | 6104 | 6118 | 6133              | 6148 | 6162 | 6177 | 6191 |          |

**NOTE 1:** OPTIMUM WEIGHT FOR PRESSURE ALTITUDE IS 58,200 kg  
A) THRUST LIMITED WEIGHT FOR ISA +10 AND COLDER EXCEEDS STRUCTURAL LIMIT  
B) THRUST LIMITED WEIGHT FOR ISA +15 EXCEEDS STRUCTURAL LIMIT  
C) THRUST LIMITED WEIGHT FOR ISA +20 IS 66,400 kg

**NOTE 2:** ADJUSTMENTS FOR OPERATION AT NON-STANDARD TEMPERATURES  
A) INCREASE FUEL REQUIRED BY 0.6 PERCENT PER 10 DEGREES C ABOVE ISA  
B) DECREASE FUEL REQUIRED BY 0.6 PERCENT PER 10 DEGREES C BELOW ISA  
C) INCREASE TAS BY 1 KNOT PER DEGREE C ABOVE ISA  
D) DECREASE TAS BY 1 KNOT PER DEGREE C BELOW ISA

Figure 4.5.3.1 Long Range Cruise – Pressure Altitude 33,000 ft

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- a) 433 kt
- b) 420 kt
- c) 418 kt
- d) 431 kt

## 63. The fuel-oil heat exchanger:

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- a) Cools the oil and heats the fuel.
- b) Heats the fuel only.
- c) Cools both the oil and the fuel.
- d) Cools the oil only.

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**64. What is the minimum number of NAVSTAR/GPS satellites required to produce an accurate independent 3-D position fix?**

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- a) 4
- b) 3
- c) 24
- d) 5

**65. If, in the event of a failure, there is no significant out-of-trim condition or deviation of flight path or attitude but the landing is not completed automatically, such an automatic landing system is considered as:**

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- a) Fail-operational.
- b) Fail-safe.
- c) Fail-passive.
- d) Fail-redundant.

**66. Before transmitting the pilot should:**

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- a) Always write the message and read it during the transmission
- b) Make sure that the aircraft is levelled off
- c) Make sure that the emergency frequency is tuned in at the same time
- d) Listen out on the frequency to ensure no interference with another station already transmitting will occur

**67. Which procedure is recommended to prevent or overcome spatial disorientation?**

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- a) Rely entirely on the indications of the flight instruments.
- b) Get adapted to low levels of illumination before flying and use off-centre vision all the time.
- c) Rely on the seat-of-the-pants sense.
- d) Tilt your head to the side to get better informations from the semicircular canals.

**68. The ICAO definition of ETA is the:**

---

- a) Actual time of arrival at a point or fix
- b) Estimated time en-route
- c) Estimated time of arrival at destination
- d) Estimated time of arrival at an en-route point or fix

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**69. If flaps are deployed at constant IAS in straight and level flight, the magnitude of tip vortices will eventually: (flap span less than wing span)**

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- a) Increase
- b) Decrease
- c) Increase or decrease, depending on the initial angle of attack
- d) Remain the same

**70. On large aeroplanes equipped with power brakes, the main source of power is derived from:**

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- a) The master cylinders.
- b) Pressure to the rudder pedals.
- c) The aeroplane's hydraulic system.
- d) The brake actuators.

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## Response Scheme

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

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

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## Response form

Use this form to mark your answers

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