

# Exam simulation

ATPL - Airline Transport Pilot license - Operational Procedures



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STUDENT NAME:

DATE AND TIME:

**01. If the elevator trim tab is deflected up, the cockpit trim indicator presents:**

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- a) Neutral
- b) Nose-down
- c) Nose-left
- d) Nose-up

**02. In order to know in which mode the auto-throttles are engaged, the crew will check the:**

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- a) ND (Navigation Display).
- b) PFD (Primary Flight Display)
- c) Throttles position.
- d) TCC (Thrust Control Computer).

**03. 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.

**04. Given: Mach number  $M = 0.70$ , measured impact temperature =  $-48\text{ }^{\circ}\text{C}$ , the recovery factor ( $K_r$ ) of the temperature probe =  $0.85$ . The OAT is:**

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- a)  $-68\text{ }^{\circ}\text{C}$
- b)  $-45\text{ }^{\circ}\text{C}$
- c)  $-51\text{ }^{\circ}\text{C}$
- d)  $-65\text{ }^{\circ}\text{C}$

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## 05. What does the abbreviation 'INS' mean?

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

## 06. The presence of ice pellets at the surface is evidence that

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- a) A cold front has passed
- b) There are thunderstorms in the area
- c) Freezing rain occurs at a higher altitude
- d) A warm front has passed

## 07. A higher pressure altitude at ISA temperature:

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- a) Increases the climb limited take-off mass
- b) Decreases the take-off distance
- c) Has no influence on the allowed take-off mass
- d) Decreases the field length limited take-off mass

## 08. The wing ice protection system currently used for most large turboprop transport aeroplanes is a:

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- a) Electrical de-icing system.
- b) Hot air system.
- c) Pneumatic system with inflatable boots.
- d) Liquid de-icing system.

## 09. The retina allows for colour perception as a result of the:

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- a) Crystalline lens
- b) Rods located in its central part
- c) Rods located in its peripheral zone
- d) Cones located in its central part

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**10. Which phrase shall be used if you want to say: 'I should like to know...' or 'I wish to obtain...'?**

---

- a) Acknowledge
- b) Report
- c) Confirm
- d) Request

**11. What is EGNOS (European Global Navigation Overlay System)?**

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- a) Local Area Differential GPS (LADGPS)
- b) GLONASS
- c) Wide Area Differential GPS (WADGPS)
- d) Local Area Augmentation System (LAAS)

**12. The atmosphere contains the following gases:**

---

- a) 78% helium, 21% oxygen, 1% carbon monoxide, rest: rare gases
- b) 78% nitrogen, 21% oxygen, 1% carbon monoxide, rest: rare gases
- c) 78% helium, 21% oxygen, 0,03% carbon dioxide, rest: rare gases
- d) 78% nitrogen, 21% oxygen, 0,03% carbon dioxide, rest: rare gases

**13. A 'hung start' is the failure of an engine to accelerate to its normal idle speed. It may be caused by:**

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- a) Compressor surging.
- b) The starter cutting out early in the starting sequence before the engine has accelerated to the required RPM for ignition.
- c) An attempt to ignite the fuel before the engine has been accelerated sufficiently by the starter.
- d) Failure of the fuel to ignite in the starting sequence after the engine has been accelerated to the required RPM by the starter.

**14. The maximum amount of water vapour that the air can contain depends on the**

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- a) Stability of the air
- b) Relative humidity
- c) Dewpoint
- d) Air temperature

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**15. Which of the following gives the best information about the progress of a flight between 2 en-route waypoints from a RNAV equipment?**

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- a) ETO
- b) Elapsed time on route
- c) ATA
- d) ETD

**16. What will increase the sensitivity to Dutch Roll?**

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- a) A forward movement of the centre of gravity.
- b) An increased static directional stability.
- c) An increased anhedral.
- d) An increased static lateral stability.

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

---

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

**18. According with the 'Aerodrome Reference Code' the 'Code number 4' shall identify an aircraft reference field length of:**

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- a) 1 500 m.
- b) 1 600 m.
- c) 1 200 m.
- d) 1 800 m and over.

**19. CO (carbon monoxide) present in the smoke of cigarettes can lead to: 1. reduction of time of useful consciousness 2. hypoxia at a lower altitude than normal**

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- a) 1 is correct, 2 is false
- b) 1 and 2 are both correct
- c) 1 and 2 are both false
- d) 1 is false, 2 is correct

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**20. The colour identification of the contents of droppable containers and packages containing survival equipment should take the form of coloured streamers according to the following code:**

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- a) Red for food and water.
- b) Yellow for blankets and protective clothing.
- c) Black for food and water.
- d) Blue for medical supplies and first aid equipment.

**21. In case of accidental closing of an aircraft's left static pressure port (rain, birds), the altimeter:**

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- a) Overreads the altitude in case of a side-slip to the right and displays the correct information during symmetric flight.
- b) Overreads the altitude in case of a sideslip to the left and displays the correct information during symmetric flight.
- c) Underreads the altitude.
- d) Keeps on providing reliable reading in all situations

**22. Uphill slope:**

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- a) Decreases the accelerate-stop distance only
- b) Increases the take-off distance more than the accelerate-stop distance
- c) Increases the allowed take-off mass
- d) Decreases the take-off distance only

**23. Which of these statements about the wing structure is correct?**

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- a) A torsion box is formed by wing spars, ribs and wing skin reinforced by stringers.
- b) The slats are a part of the torsion box.
- c) A semi-monocoque structure consists of the skin and frames.
- d) A wing main spar consists of a web with stringers.

**24. When filling in an ATC flight plan before departure, the time information which should be entered in item 13: 'Time' is:**

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FLIGHT PLANNING ICAO MODEL FLIGHT PLAN FORM	
<b>FLIGHT PLAN PLAN DE VOL</b>	
1. PRIORITY Priority FF	
2. AIRCRAFT TYPE AND CLASSIFICATION Type and class of aircraft	
3. FLIGHT TIME Time en vol	
4. OPERATOR Operator	
5. AIRCRAFT IDENTIFICATION Identification of aircraft	
6. FLIGHT RULES Type of flight	
7. NUMBER Number	
8. DEPARTURE AIRPORT Aéroport de départ	
9. ARRIVAL AIRPORT Aéroport d'arrivée	
10. CRUISE SPEED Vitesse de croisière	
11. ALTITUDE Altitude	
12. DEPARTURE AIRPORT Aéroport de départ	
13. OTHER INFORMATION Autres renseignements	
14. DESTINATION AIRPORT Aéroport de destination	
15. OTHER INFORMATION Autres renseignements	
16. SUPPLEMENTARY INFORMATION Renseignements complémentaires	
17. INSURANCE Assurance	
18. WEIGHT Poids	
19. PASSENGERS Passagers	
20. CARGO Marchandises	
21. REMARKS Remarques	
22. PILOT IN COMMAND Pilote commandant de bord	
23. SIGNATURE Signature	
24. DATE AND TIME Date et heure	

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- a) Planned take-off time.
- b) Estimated off-block time.
- c) The time of flight plan filing.
- d) Planned engine start time.

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## 25. What does the word 'disregard' mean?

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- a) Consider that transmission as not sent
- b) Wait and I will call you
- c) Annul the previously transmitted clearance
- d) An error has been made in this transmission

## 26. The angle of attack of a blade section is the angle between the chord line and the:

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- a) Induced airflow.
- b) Rotational airflow.
- c) Plane of rotation.
- d) Relative airflow.

## 27. Where unaccompanied baggage is carried on board an aircraft:

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- a) The baggage is to be placed in a secure and isolated area in the baggage hold.
- b) The baggage must be searched before loading aboard the aircraft.
- c) Quarantine procedures are to be applied.
- d) Additional security measures are to be applied.

## 28. Drag is in the direction of - and lift is perpendicular to the:

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- a) Chord line
- b) Relative wind/airflow
- c) Longitudinal axis
- d) Horizon

## 29. A pilot approaching an upsloping runway

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- a) Is performing a steeper than normal approach, landing long
- b) Establishes a higher than normal approach speed
- c) May feel that he is higher than actual. This illusion may cause him to land short.
- d) Establishes a slower than normal approach speed with the risk of stalling out

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**30. Which of the following sequences shows the correct elements of a position report in the correct order? 1) call sign 2) reported position 3) heading (°M) 4) level or altitude 5) next position 6) ETA of the next position 7) aircraft type 8) time of reported position**

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

**31. Required Navigation Performance (RNP) shall be prescribed**

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

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

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- 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

**33. If a pilot has to perform two tasks requiring the allocation of cognitive resources:**

---

- a) The only way of not seeing performance tail off is to switch to knowledge-based mode for the two tasks
- b) A person reaches his limits as from simultaneous tasks, and performance will then tail off
- c) The only way of not seeing performance tail off is to switch to rules-based mode for the two tasks
- d) The sharing of resources causes performance on each task to be reduced

**34. The required time for final reserve fuel for turbojet aeroplane is:**

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- a) 45 min.
- b) 60 min.
- c) 30 min.
- d) Variable with wind velocity.

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**35. Length of the mean aerodynamic chord = 1 m Moment arm of the forward cargo: -0,50 m Moment arm of the aft cargo: + 2,50 m. The aircraft mass is 2 200 kg and its centre of gravity is at 25% MAC. To move the centre of gravity to 40%, which mass has to be transferred from the forward to the aft cargo hold?**

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- a) 110 kg
- b) 104 kg
- c) 165 kg
- d) 183 kg

**36. On a wing fitted with a 'Fowler' type trailing edge flap, the 'Full extended' position will produce:**

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- a) An unaffected wing area and increase in camber
- b) An increase in wing area and camber
- c) An increase in wing area only
- d) An unaffected CD, at a given angle of attack

**37. See Flight Planning Manual SEP 1 Figure 2.5. Given: FL 75, Lean mixture, Full throttle, 2300 RPM. Take-off fuel: 444 lb. Endurance in hours and minutes.**

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Endurance

ASSOCIATED CONDITIONS:

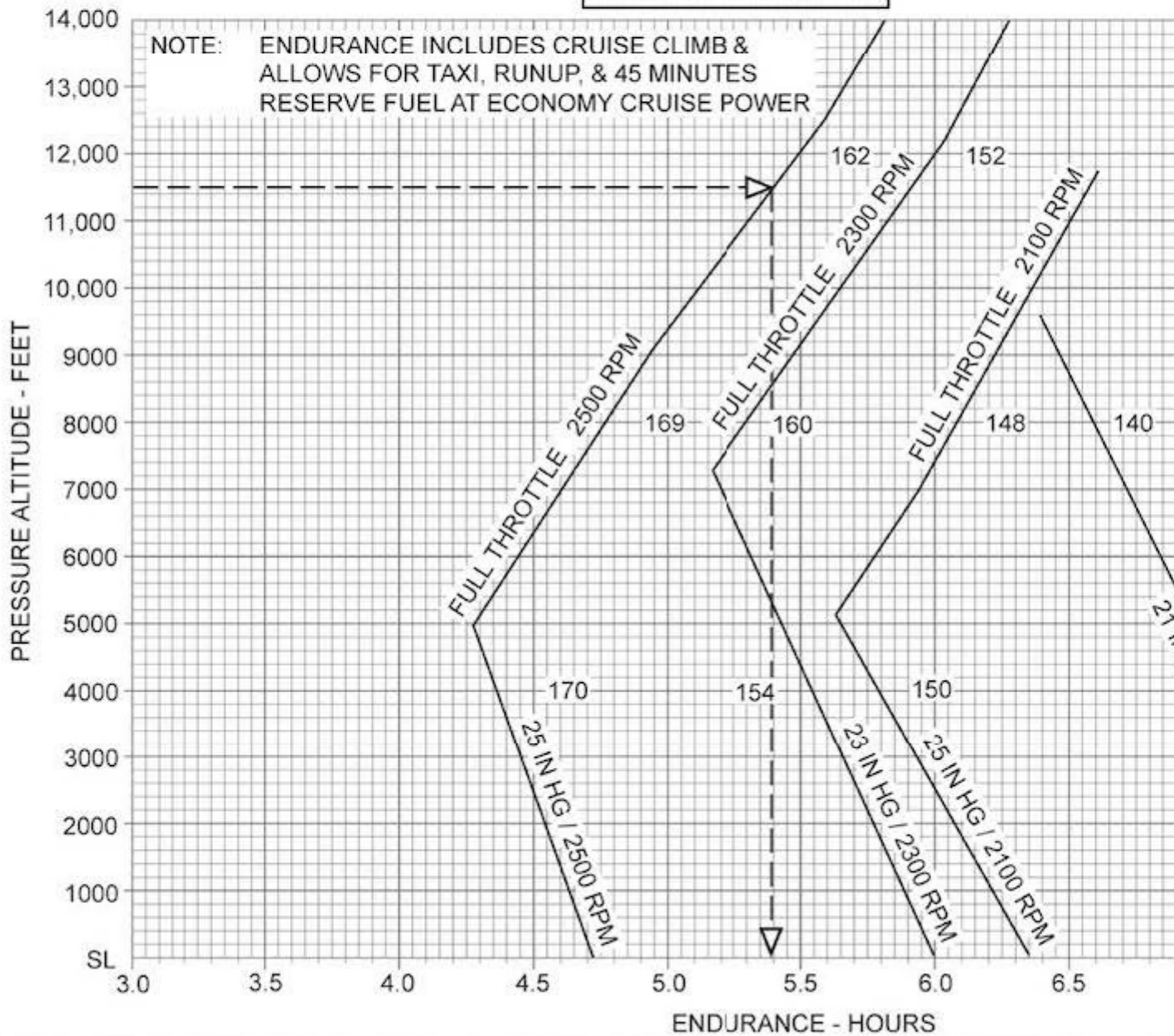
MASS..... 3663 LB BEFORE ENGINE START  
 FUEL..... AVIATION GASOLINE  
 FUEL DENSITY..... 6.0 LB/GAL  
 INITIAL FUEL LOAD..... 74 U.S. GAL (444 LB)  
 TAKE-OFF ALTITUDE..... SEA LEVEL  
 WIND..... ZERO

ISA

EXAMPLE:

CRUISE ALTITUDE..... 11,000  
 POWER SETTING..... F  
 ENDURANCE..... 5.4

20°C LEAN of PEAK EGT



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- a) 05 hours 12 minutes
- b) 05 hours 23 minutes
- c) 04 hours 42 minutes
- d) 05 hours 20 minutes

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## 38. Presbyopia is:

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- a) Long sightedness linked with age
- b) High intraocular pressure
- c) Myopia
- d) Short sightedness

## 39. Which of the following is the ICAO allocated frequency band for ADF receivers?

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- a) 300 - 3000 kHz
- b) 255 - 455 kHz
- c) 200 - 2000 kHz
- d) 190 - 1750 kHz

## 40. Holding Procedures - Entry. Related to the three entry sectors in a holding pattern, there is a zone of flexibility on either side of the sectors boundaries of:

---

- a) 10°.
- b) 15°.
- c) 5°.
- d) 20°.

## 41. The airspeed indicator of a twin-engine aircraft comprises different sectors and colour marks. The blue line corresponds to the:

---

- a) Speed not to be exceeded, or VNE
- b) Optimum climbing speed with one engine inoperative, or Vy
- c) Maximum speed in operations, or VMO
- d) Minimum control speed, or VMC

## 42. A signal sent by radiotelephony consisting of the spoken words PAN PAN, PAN PAN, PAN PAN means:

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- a) The aircraft is diverting from the route cleared because of a thunderstorm and asks for immediate reclearance
- b) Imminent danger threatens the aircraft and immediate assistance is required
- c) An aircraft on final approach is starting the missed approach procedure
- d) The aircraft has a very urgent message to transmit concerning the safety of a ship, aircraft or other vehicle, but immediate assistance is not required

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## 43. One method to compensate adverse yaw is:

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

## 44. Tetanus is transmitted through:

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- a) Bacteria in the form of spores via a puncture in the skin
- b) Food or water which has been contaminated
- c) Insect bites
- d) Droplets in the air cause by the breath of an infected person

## 45. Area Control Centres issue clearances for the purpose of:

---

- a) Achieving separation between IFR flights
- b) Achieving separation between controlled flights
- c) Providing advisory service
- d) Providing flight Information Service

## 46. By what action could the pressure gradient between the middle and the outer ear be balanced?

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- a) By breathing out.
- b) By breathing in.
- c) By coughing.
- d) By swallowing.

## 47. In order to measure the radial from a VOR, the aircraft VOR receiver

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- 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.

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**48. In case of an engine nozzle fire while on ground you:**

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- a) Carry out a damp cranking.
- b) Carry out a dry cranking.
- c) Fight the nozzle fire with a water fire-extinguisher.
- d) Pull the fire shut off handle and trigger the engines fire-extinguishers.

**49. The aeroplane has a mass of 61 000 kg in the cruise. The range of safe CG positions, as determined from the appropriate graph in the loading manual, is:**

---

- a) Forward limit 8.0% aft limit 27.2% MAC
- b) Forward limit 8.3% aft limit 26.3% MAC
- c) Forward limit 7.7% aft limit 25.2% MAC
- d) Forward limit 7.6% aft limit 26.9% MAC

**50. Given: Chart scale is 1: 1 850 000. The chart distance between two points is 4 centimetres. Earth distance is approximately:**

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- a) 100 NM
- b) 74 NM
- c) 4 NM
- d) 40 NM

**51. By the term "transit" of a heavenly body it is understood that:**

---

- a) The body is moving.
- b) The body is passing the meridian of the observer or another specified meridian.
- c) The body is passing the anti-meridian of the observer.
- d) The body is at the same celestial as another body.

**52. The pneumatic ice protection system is mainly used for:**

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- a) Pitot tubes.
- b) Wings.
- c) Engine intakes.
- d) Propellers.

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## 53. An AIRAC is:

- a) A notice distributed by means of telecommunication containing information concerning the establishment, condition or change in any aeronautical facility service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations.
- b) An acronym for a system aimed at advance notification based on common effective dates, of circumstances necessitating significant changes in operating procedures.
- c) A publication issued by or with the authority of a state containing aeronautical information of a lasting character essential to air navigation.
- d) A package which consists of the following elements: AIP, supplements to the AIP, NOTAM, AIC, checklists and summaries.

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## 54. The planned departure time from the parking area is 1815 UTC. The estimated take-off time is 1825 UTC. The flight plan must be filed with ATC at the latest at:

- a) 1725 UTC
- b) 1745 UTC
- c) 1715 UTC
- d) 1755 UTC

---

## 55. The Low Altitude Radio Altimeter uses the following wavelengths:

- a) Centimetric.
- b) Metric.
- c) Decimetric.
- d) Myriametric.

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## 56. After a landing, with overweight and overspeed conditions, the tyres and brakes are extremely hot. The fire personnel should approach the landing gear tyres:

- a) Only from the front or rear
- b) Under no circumstances
- c) From any side
- d) Only from the left or right side

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## 57. Habits and routine can influence decision-making in a way that:

---

- a) Habit is the product of experience and should be used as a primary consideration in all decisions
- b) Shows a tendency to select the most familiar solution first and foremost, sometimes to the detriment of achieving the best possible result
- c) One always selects a choice in accordance with the company's usual practices
- d) Professional pilots will never question established procedures

## 58. An aircraft in distress shall send the following signal by radiotelephony:

---

- a) PAN PAN, PAN PAN, PAN PAN
- b) DETRESFA, DETRESFA, DETRESFA
- c) URGENCY, URGENCY, URGENCY
- d) MAYDAY, MAYDAY, MAYDAY

## 59. During the approach, a crew reads on the radio altimeter the value of 650 ft. This is an indication of the true:

---

- a) Height of the lowest wheels with regard to the ground at any time.
- b) Altitude of the aircraft.
- c) Height of the aircraft with regard to the runway.
- d) Height of the aircraft with regard to the ground at any time.

## 60. If your destination airport has no ICAO indicator, in the appropriate box of your ATC flight plan, you write:

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- a) ZZZZ
- b) XXXX
- c) AAAA
- d) ////

## 61. The optimum altitude:

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- a) Decreases as mass decreases
- b) Increases as mass decreases and is the altitude at which the specific range reaches its maximum
- c) Is the altitude up to which cabin pressure of 8 000 ft can be maintained
- d) Is the altitude at which the specific range reaches its minimum

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**62. When a RADAR operator says the following to an aircraft: 'fly heading 030', the pilot must fly heading:**

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- a) 030° magnetic in still air conditions (thereby flying the magnetic track)
- b) 030° true
- c) 030° magnetic
- d) 030° true, in still air conditions (thereby flying the true track)

**63. In the ATS flight plan, for a non-scheduled flight which of the following letters should be entered in item 8 (type of flight):**

---

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

**64. The ICAO annex which deals with entry and departure of persons and their baggage in international flights is:**

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- a) Annex 8
- b) Annex 6
- c) Annex 9
- d) Annex 15

**65. You are flying from A (30°S 20°E) to B (30°S 20°W). What is the RL track from A to B?**

---

- a) 250° (T)
- b) 300° (T)
- c) 270° (T)
- d) 290° (T)

**66. The semicircular canals form part of the**

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- a) Inner ear
- b) External ear
- c) Ear drum
- d) Middle ear

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**67. A lower airspeed at constant mass and altitude requires:**

---

- a) Less thrust and a lower coefficient of lift
- b) A higher coefficient of lift
- c) More thrust and a lower coefficient of drag
- d) More thrust and a lower coefficient of lift

**68. Creep of turbine blades is caused by:**

---

- a) Prolonged idling at low RPM.
- b) High blade temperature whilst under centrifugal loading.
- c) Static imbalance of the blades.
- d) Bending stresses set up by gas pressure.

**69. You are flying from A (30°S 20°E) to B (30°S 30°W). What is the approximate final GC track?**

---

- a) 280° (T)
- b) 270° (T)
- c) 300° (T)
- d) 250° (T)

**70. Select the acronym corresponding to the following definition: a special NOTAM series notifying, by means of a specific format, an important change for the aircraft operations, due to a volcano activity, a volcano eruption or a volcanic ash cloud.**

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- a) VULTAM
- b) ASHTAM
- c) VOLCAM
- d) NAVTAM

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## Response Scheme

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

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

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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: _____		