

Exam simulation

ATPL - Airline Transport Pilot license - Aircraft General Knowledge - Airframe, Systems, Powerplant



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STUDENT NAME:

DATE AND TIME:

01. With regard to decompression sickness associated with flight, we know that:

- a) Age, obesity and scuba diving are risk factors
- b) Physical activity after decompression reduces the risks of decompression sickness symptoms
- c) Gender is the prime risk factor, with two out of every three women being sensitive to it
- d) Scuba diving does not pose any problem for a subsequent flight

02. A check on the operation of the SELCAL equipment during a transatlantic flight using the OTS (Organised Track System) must be done:

- a) As soon as possible after entering the NAT region
- b) On ATC request only
- c) Within 15 min after crossing the oceanic airspace boundary
- d) At or prior to entering the oceanic airspace

03. When it is 1000 Standard Time in Kuwait, the Standard Time in Algeria is (STF Kuwait 03 h, Algeria 01 h):

- a) 0800
- b) 0700
- c) 1300
- d) 1200

04. Relationships between the force, pressure and area is:

- a) Pressure = Force X Area
- b) Force = pressure x area
- c) Force = volume / area
- d) Pressure = Area X Distance

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05. 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?

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

06. Given: maximum allowable take-off mass 64400 kg maximum landing mass 56200 kg maximum zero fuel mass 53000 kg dry operating mass 35500 kg estimated load 14500 kg estimated trip fuel 4900 kg minimum take-off fuel 7400 kg Find the maximum allowable take-off fuel:

- a) 14400 kg
- b) 11400 kg
- c) 8600 kg
- d) 11100 kg

07. Stress management programmes usually involve:

- a) The prevention and/or the removal of stress
- b) The use of psychoactive drugs
- c) Only the prevention of stress
- d) Only the removal of stress

08. How many hours in advance of EOBT should a ATC flight plan be filed in the case of flights into areas subject to air traffic flow management (ATFM)?

- a) 1:00 hour.
- b) 3:00 hours.
- c) 2 hours.
- d) 0:30 hours.

09. Which one of the following local winds is a Foehn wind?

- a) Harmattan
- b) Chinook
- c) Bora
- d) Scirocco

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10. A runway is contaminated by a 0.5 cm layer of wet snow. The take-off is nevertheless authorized by a light-twin's flight manual. The take-off distance in relation to a dry runway will be:

- a) Unchanged
- b) Decreased
- c) Increased
- d) Very significantly decreased

11. According to PART-MED, licence holders do not exercise the privileges of their licences, related ratings or authorisations at any time when they are aware of any decrease in their medical fitness which might render them unable to safely exercise those privileges. They shall without undue delay seek the advice of the authority or AME when becoming aware of hospital or clinic admissions for:

- a) More than 12 hours
- b) Any period
- c) More than one week
- d) More than 12 days

12. LFPG 221100Z 1219 22010KT 4500 RA BKN010 OVC015 TEMPO 1214 1500 +RA OVC005 FM1430 29020G35KT 6000 SHRA BKN008TCU OVC015 TEMPO 1619 25010KT 9999 NSW BKN020 PROB30 TEMPO 1619 1500 TSGR BKN007CB What is the most likely visibility for landing at 13:45Z?

- a) 1500 m
- b) 4500 m
- c) 12000 m
- d) 6000 m

13. On the readability scale what does 'readability 1' mean?

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

14. The first cockpit tool that tends to suffer as a result of stress:

- a) Cockpit communications
- b) Cockpit entity
- c) Cockpit cohesion
- d) Cockpit synergy

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15. Human behaviour is determined by:

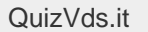
- a) Biological characteristics
- b) The social environment
- c) Biological characteristics, social environment and cultural influences
- d) Cultural influences

16. The geometric shape of the reference system for the satellite navigation system NAVSTAR/GPS, defined as WGS 84, is:

- a) A mathematical model that describes the exact shape of the earth
- b) A sphere
- c) An ellipsoid
- d) Only the 1575 MHz carrier wave and one code

17. Refer to General Student Pilot Route Manual: In the ATC flight plan Item 10, 'standard equipment' is considered to be:

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FLIGHT PLANNING
ICAO MODEL FLIGHT PLAN FORM

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- a) VHF RTF, ADF, VOR and transponder
- b) VHF RTF, ADF, VOR and ILS
- c) VHF RTF, VOR, INS and transponder
- d) VHF RTF, VOR, ILS and transponder

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18. VX is:

- a) The speed for best rate of climb
- b) The speed for best angle of climb
- c) The speed for best angle of flight path
- d) The speed for best specific range

19. Which word shall be used to indicate that an error has been made in a transmission or message?

- a) Negative
- b) Correct
- c) Disregard
- d) Correction

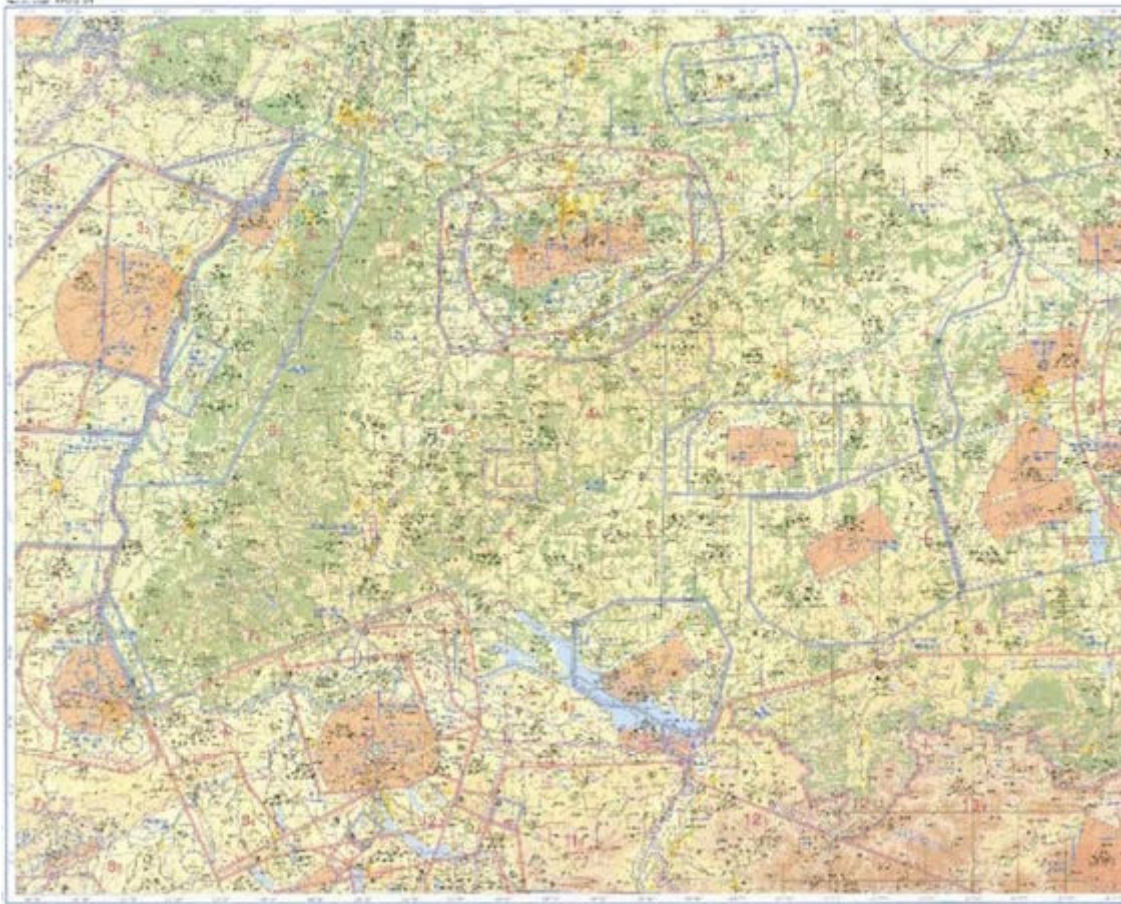
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20. Refer to the Jeppesen General Student Pilot Route Manual - VFR Chart ED-4 Flying VFR from VILLINGEN (48°03.5'N, 008°27.0'E) to FREUDENSTADT (48°28.0'N, 008°24.0'E) determine the distance.



- a) 24 NM
- b) 41 km
- c) 28 NM
- d) 46 NM

21. What is synergy in a crew ?

- a) The coordinated action of unrelated individual performances in achieving a non-standard task
- b) A behavioural expedient associated with the desynchronisation of the coordinated actions
- c) The uncoordinated action of the crewmembers towards a common objective
- d) The coordinated action of all members towards a common objective, in which collective performance is proving to be more than the sum of the individual performances

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22. A straight line on a chart 4.89 cm long represents 185 NM. The scale of this chart is approximately:

- a) 1: 7 000 000
- b) 1: 5 000 000
- c) 1: 6 000 000
- d) 1: 3 500 000

23. Which is the maximum distance at which you might expect solid VHF contact over flat terrain at flight level 100:

- a) About 120 NM
- b) About 12 NM
- c) About 30 NM
- d) About 300 NM

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

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

25. The flight preparation of a turbojet aeroplane provides the following data: Take-off runway limitation: 185 000 kg Landing runway limitation: 180 000 kg Planned fuel consumption: 11 500 kg Fuel already loaded on board the aircraft: 20 000 kg Knowing that: Maximum take-off mass (MTOM): 212 000 kg Maximum landing mass (MLM): 174 000 kg Maximum zero fuel mass (MZFM): 164 000 kg Dry operating mass (DOM): 110 000 kg The maximum cargo load that the captain may decide to load on board is:

- a) 54 000 kg
- b) 61 500 kg
- c) 55 500 kg
- d) 55 000 kg

26. What does the word 'approved' mean?

- a) That is correct
- b) Permission for proposed action granted
- c) I repeat for clarity or emphasis
- d) Authorized to proceed under the conditions specified

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27. The range of wind speed in which radiation fog is most likely to form is:

- a) Between 10 and 15 kt
- b) Below 5 kt
- c) Above 15 kt
- d) Between 5 and 10 kt

28. The landing reference speed VREF has, in accordance with CS 25, the following margins above reference stall speed in landing configuration:

- a) 23%
- b) 10%
- c) 20%
- d) 15%

29. A message preceded by the phrase 'Transmitting blind due receiver failure' shall be transmitted:

- a) On the regional guard frequency
- b) On the international emergency frequency
- c) On the frequency presently in use
- d) On all available aeronautical stations

30. A wind sounding in the region of a polar front jet stream gives the following wind profile (Northern hemisphere): 900 hPa 220/20kt 800 hPa 220/25kt 700 hPa 230/35kt 500 hPa 260/60kt 400 hPa 280/85kt 300hPa 300/100kt 250hPa 310/120kt 200hPa 310/80kt Which system is the jet stream associated with?

- a) With a ITCZ
- b) With a cold front
- c) With an easterly wave
- d) With a warm front

31. What is the correct way of transmitting the number 13500 to indicate an altitude or cloud height?

- a) One three five zero zero
- b) One three five hundred
- c) Thirteen thousand five hundred
- d) One three thousand five hundred

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32. The risk of spatial disorientation increases when:

- a) The pilot is buckled tightly to his/her seat and cannot sense the attitude changes of the aircraft by the Seat-of-the-Pants-Sense
- b) The pilot is performing an effective instrument cross-check and is ignoring illusions
- c) There is contradictory information between the instruments and the vestibular organs
- d) Information from the vestibular organ in the inner ear are ignored

33. Given: True HDG = 233°, TAS = 480 kt, Track (T) = 240°, GS = 523 kt. Calculate the W/V?

- a) 4
- b) 5
- c) 7
- d) 6

34. Which of the following statements is/are correct? 1. REM-sleep becomes shorter with any repeated sleep cycle during the night. 2. REM-sleep is more important for the regeneration of mental functions than all the other sleep stages are.

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

35. With reference to the SHELL Model, S represents:

- a) Software (which includes check lists)
- b) Symbolology (which includes safety)
- c) Self-awareness (which includes Safety)
- d) Security (which includes Safety)

36. The lowest cloud conditions (oktas/ft) at BORDEAUX/MERIGNAC at 1330 UTC were

- a) 1 to 4 at 3000
- b) 3 to 4 at 2000
- c) 1 to 2 at 3000
- d) 3 to 4 at 800 [see Annex]

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37. A Radar Information Service (RIS) provides:

- a) The bearing, distance and if known, the altitude of conflicting traffic.
- b) Information for IFR traffic only.
- c) Traffic information and avoiding action.
- d) Radar separation from all other traffic.

38. Fuel flow per h is 22 US-GAL, total fuel on board is 83 IMP GAL. What is the endurance?

- a) 4 HR 32 MIN
- b) 2 HR 15 MIN
- c) 3 HR 53 MIN
- d) 3 HR 12 MIN

39. Contracting States shall establish a rescue co-ordination centre:

- a) At every ATS facility.
- b) At every international airport.
- c) If they are adjacent to the sea.
- d) In each search and rescue region.

40. An aircraft flying at flight level 370 (FL 370) in MNPS Airspace is unable to continue flight in accordance with its air traffic control clearance but is able to maintain its assigned level (FL 370), and due to a total loss of communications capability, cannot obtain a revised clearance from ATC. The aircraft should leave its assigned route or track by turning 90° (90 degrees) to the right or left whenever this is possible, and turn to acquire and maintain in either direction a track laterally separated by 30 NM from its assigned route and:

- a) Climb or descent 1 000 ft or descend 500 ft
- b) Climb or descent 1 000 ft
- c) The aircraft should leave its assigned route or track by turning 90° (90 degrees) to the right or left whenever this is possible, and turn to acquire and maintain in either direction a track laterally separated by 30 NM from its assigned route and: climb or descent 1 000 ft or descend 500 ft climb or descent 1 000 ft climb 500 ft or descend 1 000 ft
- d) Climb or descend 500 ft

41. . The mass of an item multiplied by it's distance from the datum is it's

- a) Moment
- b) Force
- c) Moment arm
- d) Centre of gravity

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42. Holding procedures (outbound time) The outbound time in a holding pattern at 14000 ft or below in still air conditions is:

- a) 1,5 minutes.
- b) 2 minutes.
- c) 30 seconds.
- d) 1 minute.

43. On an aeroplane with a seating capacity of more than 30, it is decided to use standard mass values for computing the total mass of passengers. If the flight is not a holiday charter, the mass value which may be used for an adult is

- a) 76 kg
- b) 84 kg
- c) 88 kg (male) 74 kg (female).
- d) 84 kg (male) 76 kg (female).

44. What shall the pilot's read back be for 'Climb to FL 280':

- a) Climbing to flight level two eighty
- b) Climbing to flight level two eight zero
- c) Climbing to two eighty
- d) Climbing two eight zero

45. Quadrantal errors associated with aircraft Automatic Direction Finding (ADF) equipment are caused by:

- a) Misalignment of the loop aerial
- b) Signal bending caused by electrical interference from aircraft wiring
- c) Skywave/groundwave contamination
- d) A geoid

46. Approach procedures, Arrival and Approach Segments - Intermediate approach segment What is the minimum obstacle clearance requirement at the end of the primary area of the intermediate approach segment in an instrument approach procedure?

- a) 450m (1476 ft) reducing to 150 m (492 ft).
- b) 150m (492 ft) reducing to 0 m.
- c) 300 m (984 ft) reducing to 0 m.
- d) 300m (984 ft) reducing to 150 m (492 ft).

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47. In the decision-making process, confirmation bias results in:

- a) A tendency to look for information which confirms the validity of the decision
- b) A tendency to look for approval by other crew-members, or by the ATC
- c) Overestimating the frequency of some events
- d) Choosing familiar solutions, even if they are not the best ones

48. A message concerning a protected medical transport operated by aircraft assigned exclusively to medical transportation shall be preceded by the signal:

- a) MEDICAL TRANSPORT
- b) PAN PAN MEDICAL
- c) PAN PAN TRANSPORT
- d) PROTECTED TRANSPORT

49. The Flight Management System (FMS) is organised in such a way that:

- a) The pilot is able to modify the navigation database in the FMC between two updates.
- b) The navigation database of the FMC is valid for one year.
- c) The navigation database is read only to the pilot.
- d) Timing the period that is taken for a transmission from the aircraft's transmitter/receiver to reach and return from a satellite in a known position

50. How far from other parking areas or installations is the parking area designated for aircraft subjected to unlawful interference to be not less than?

- a) 100 m
- b) 300 m
- c) 200 m
- d) 50 m

51. According to PART-FCL, an examiner's authorisation is valid for:

- a) Not more than three years
- b) The period of validity of the medical certificate.
- c) The period of validity of the class/type rating.
- d) Not more than two years

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52. Which is the maximum distance at which you might expect solid VHF contact over flat terrain at flight level 50:

- a) About 8 NM
- b) About 15 NM
- c) About 85 NM
- d) About 150 NM

53. According to PART-FCL, an applicant for ATPL (A) shall have completed as a pilot of aeroplane at least 1.500 hours of flight time, including

- a) 500 hours in multi-pilot operations on aeroplanes type certificated in accordance with EASA- CS/FAR 25 or EASA-CS/FAR 23, as pilot-in-command
- b) 500 hours in multi-pilot operations on aeroplanes type certificated in accordance with EASA- CS/FAR 25 or EASA-CS/FAR 23, of which up to 150 hours may be as flight engineer.
- c) 500 hours in multi-pilot operations on aeroplanes type certificated in accordance with EASA- CS/FAR 25 or EASA-CS/FAR 23.
- d) 500 hours in multi-pilot operations on aeroplanes type certificated in accordance with EASA- CS/FAR 25 or EASA/FAR 23, including 200 hours of night flight as pilot-in-command or as co-pilot.

54. With regard to central vision, which of the following statements are correct ?-1: It is due to the functioning of rods-2: It enables details, colours and movement to be seen-3: Its very active both during the day and at night-4: It represents a zone where about 150000 cones per mm are located to give high resolution capacity

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

55. Which phrase shall be used to confirm that a message has been repeated correctly:

- a) Correct
- b) That is affirmative
- c) Affirm
- d) That is right

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56. An aircraft transmitting a distress message is required to give its position as:

- a) The most accurate possible using GPS if fitted.
- b) Present or last known position, altitude or level and heading.
- c) Position relative to a VRP.
- d) Latitude and longitude.

57. H2O extinguishers are fit to fight:

- a) Electrical source fires
- b) Class B fires
- c) Special fires: metals, gas, chemical products
- d) Class A fires

58. In a pressurized aircraft, the first aid (therapeutic) oxygen is designed to:

- a) Protect The Flight Crew And Cabin Attendants Against Fumes And Noxious Gases.
- b) Give medical assistance to passengers with pathological respiratory disorders.
- c) Protect certain passengers, and is only carried on board for these people.
- d) Protect All The Occupants Against The Effects Of Accidental Depressurisation.

59. An approximate equation for calculating the convergence between two meridians is:

- a) Convergence = $60 \times \text{dlong} \times \cos \text{lat}$
- b) Convergence = $\text{dlong} \times \cos \text{lat}$
- c) Convergence = $\text{dlong} \times \sin \text{mean lat}$
- d) Convergence = $\text{dlat} \times \sin \text{mean long}$

60. When the term 'CAVOK' is used in an aviation routine weather report (METAR), the values of visibility and clouds are:

- a) Visibility 10 km or more, no clouds below 5000 feet/GND
- b) Visibility more than 5000 m, no clouds below 1500 m/GND
- c) Visibility more than 8 km, no clouds below 3000 feet/GND
- d) Visibility 10 km or more, no clouds below 1500 feet/GND

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61. On the QDR of 075° (in the vicinity of the station) with a magnetic heading of 295°, the relative bearing on the ADF indicator is:

- a) 320°
- b) 220°
- c) 040°
- d) Range within "line of sight", and maximum of 200 NM

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

- a) 1 to 4 oktas
- b) 5 to 7 oktas
- c) No clouds below 5000 feet
- d) 8 oktas below 10000 feet

63. The elements which take part in the local vertical alignment of an inertial strap-down unit are:

- a) The accelerometers and gyroscopes.
- b) The flow inductors.
- c) The accelerometers.
- d) The gyroscopes.

64. On board a pressurised aircraft, a flight shall be undertaken only if the aircraft is provided with an oxygen reserve enabling all the crew members and part of the passengers to be supplied with oxygen in the event of a cabin depressurisation, throughout the flight period, during which the pressure altitude is greater than:

- a) 10 000 ft.
- b) 12 000 ft.
- c) 13 000 ft.
- d) 11 000 ft.

65. An aircraft encountering radio communication failure on an IFR flight in VMC is assumed to:

- a) Leave controlled airspace and continue the flight within uncontrolled airspace
- b) Continue to fly in VMC, land at the nearest suitable aerodrome, report its arrival
- c) Continue the flight to destination aerodrome in any case
- d) Squawk IDENT and proceed to the alternate aerodrome

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66. Density altitude is the:

- a) Altitude read directly from the altimeter
- b) Altitude reference to the standard datum plane
- c) Height above the surface
- d) Pressure altitude corrected for 'non standard' temperature

67. Which of the following combinations is likely to result in the most accurate Area Navigation (RNAV) fixes?

- a) VOR/DME
- b) DME/DME
- c) VOR/VOR
- d) ETD

68. With respect to a single-engine piston powered aeroplane, determine the zero fuel moment (lbs.in./100) in the following conditions: Basic Empty Mass: 2415 lbs. Arm at Basic Empty Mass: 77,9 In. Cargo Zone A: 350 lbs. Baggage Zone B: 35 lbs. Pilot and front seat passenger: 300 lbs (total)

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CIVIL AVIATION AUTHORITY
MASS AND BALANCE

DATA SHEET
AIRCRAFT-S.E.

Fig.2.4

LOADING MANIFEST

SEP1

<u>ITEM</u>	<u>MASS</u>	<u>ARM (IN)</u>	<u>MOMENT X100</u>
1. BASIC EMPTY CONDITION			
2. FRONT SEAT OCCUPANTS		79	
3. THIRD & FOURTH SEAT PAX		117	
4. BAGGAGE ZONE 'A1		108	
5. FIFTH & SIXTH SEAT PAX		152	
6. BAGGAGE ZONE 'B'		150	
7. BAGGAGE ZONE 'C1		180	
SUB - TOTAL = ZERO FUEL MASS			
8. FUEL LOADING			
SUB -TOTAL = RAMP MASS			
9. SUBTRACT FUEL FOR START, TAXI & RUN UP. (SEE NOTE)			
SUB- TOTAL = TAKE OFF MASS			
10. TRIP FUEL			
SUB -TOTAL = LANDING MASS			

NB. FUEL FOR START TAXI AND RUN UP IS NORMALLY 13 LBS AT AN
AVERAGE ENTRY OF 10 IN THE COLUMN HEADED **MOMENT (X 100)**

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- a) 6675
- b) 2496,3
- c) 2548,8
- d) 2311,8

69. A message concerning aircraft parts and material urgently required is:

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

70. What is the radiotelephony call sign for the aeronautical station indicating approach control radar arrivals?

- a) ...ARRIVAL
- b) ...DIRECTOR
- c) ...RADAR
- d) ...APPROACH

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Response Scheme

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

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

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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: _____		