

Exam simulation

ATPL - Airline Transport Pilot license - Aircraft General Knowledge - Instrumentation



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STUDENT NAME:

DATE AND TIME:

01. Complete line 1 of the 'FLIGHT NAVIGATION LOG'

Line No.	Time	Course/ Track (T)	W/V	HDG (T)	VAR	HDG (M)	POSITION FROM TO	CAS/ MACH	FL OAT	TAS	GS	DIST	TIME	ETA
1	1015	270	050/40		7E		A B	210	180 -20			300		
2	1050	180	320/50		5W		C D	175	160 -10			480		
3	1125	090	140/60		10W		E F	M 0.82	350 -40			300		
4	1210	360	315/70		10E		G H	M 0.78	310 -35			600		
5	1245	330	240/30		17W		J K	150	100 -10			275		
6	1355	070	020/60		11W		L M	M 0.84	390 -55			495		

- a) Positions 'A' to 'B'. What is the HDG°(M) and ETA?
- b) 282° - 1128 UTC
- c) 268° - 1114 UTC
- d) 268° - 1128 UTC

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02. The CVR (Cockpit Voice Recorder) includes:1. a microphone2. a recorder in compliance with the shock and fire resistance standards3. an independent battery4. a flight data recorder
The combination regrouping all the correct statements is:

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

03. Given:The coordinates of the heliport at Issy les Moulineaux are N48°50' E002°16.5'. What are the coordinates of the position directly on the opposite side of the earth?

- a) S48°50' E177°43.5'
- b) S48°50' W177°43.5'
- c) S41°10' E177°43.5'
- d) S41°10' W177°43.5'

04. What does QDM mean?

- a) Magnetic bearing from the station
- b) Magnetic heading to the station (no wind)
- c) True bearing from the station
- d) True heading to the station (no wind)

05. Given:TAS = 290 kt, True HDG = 171°, W/V = 310°(T)/30kt
Calculate the drift angle and GS?

- a) 4°R - 310 kt
- b) 4°L - 314 kt
- c) 4°L - 310 kt
- d) 4°R - 314 kt

06. Complete the following statement regarding the take-off performance of an aeroplane in performance class

- a) Following an engine failure at (i) and allowing for a reactiontime of (ii) a correctly loaded aircraft must be capable of decelerating to a halt withinthe (iii) (i) V2 (ii) 3 seconds (iii) Take-off distance available
- b) (i) V1 (ii) 2 seconds (iii) Accelerate - stop distance available
- c) (i) V1 (ii) 2 seconds (iii) Take-off distance available
- d) (i) V1 (ii) 1 second (iii) Accelerate - stop distance available

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07. Before transmitting the pilot should....:

- 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

08. When establishing an instrument approach procedure, 5 aircraft categories according to their speed at the threshold (Vat) are established. This speed is equal to the stalling speed in the landing configuration at the maximum certified landing mass multiplied by a factor of:

- a) 1.45
- b) 1.5
- c) 1.3
- d) 1.15

09. Tuck under will happen

- a) Only below the critical Mach number.
- b) Only at the critical Mach number.
- c) Above or below the critical Mach number depending on the angle of attack.
- d) Only above the critical Mach number.

10. Which is the frequency band containing frequencies of the Aeronautical Mobile Service?

- a) 108.000 - 117.975 MHz
- b) 1810 - 2850 KHz
- c) 118.000 - 136.975 MHz
- d) 11650 - 13200 KHz

11. Which statement regarding V1 is correct?

- a) V1 must not exceed VMCG
- b) V1 must not exceed VR
- c) The V1 correction for up-slope is negative
- d) When determining the V1, reverse thrust is only allowed to be taken into account on the remaining symmetric engines

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12. In case of an engine failure recognized below V1:

- a) The take-off must be rejected
- b) The take-off is to be continued unless V1 is less than the balanced V1
- c) The take-off should only be rejected if a stopway is available
- d) The take-off may be continued if a clearway is available

13. Given the following data how much cargo must be moved from the forward hold to the aft hold to achieve a CG at 33% MAC? AUM 20000kg Forward Hold Cargo 6500kg Aft hold Cargo 4000kg Distance between holds 10m Current CG: 30%MAC MAC 4.6m

- a) 6000kg
- b) 2904kg
- c) 1467kg
- d) 2760kg

14. The safety precautions to be taken whenever using oxygen are 1. refrain from smoking, avoid sparks. 2. Avoid operation of radio communication equipment. 3. Operate oxygen system valves slowly. 4 . Avoid greasy matter The combination regrouping all the correct statements is:

- a) 1, 3, 4.
- b) 1, 2, 2004.
- c) 2, 3, 2004.
- d) 1, 2, 2003.

15. A 'current flight plan' is a:

- a) Filed flight plan.
- b) Flight plan with the correct time of departure.
- c) Filed flight plan with amendments and clearance included.
- d) Flight plan in the course of which radio communication should be practised between aeroplane and AT

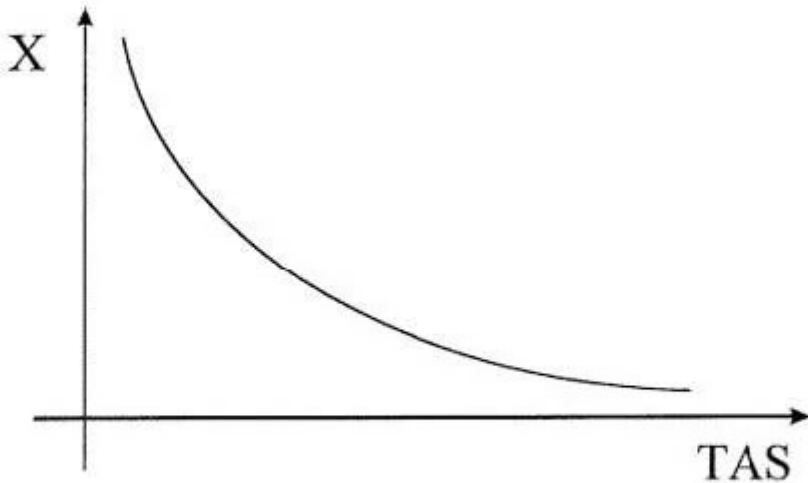
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16. The diagram shows the parameter X versus TAS. If a horizontal flight is considered the axis X shows



- a) The induced drag
- b) The parasite drag
- c) The lift force
- d) The total drag

17. Which Q-code is used to report altitude ?

- a) QFE
- b) QNH
- c) QNJ
- d) QFF

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18. The priority of the instruction 'taxi to runway 05' is:

- a) The same as 'line-up runway 07 and wait'.
- b) Less than 'cleared to land'.
- c) Greater than 'caution, construction work left of taxiway'.
- d) Greater than 'transmit for QDM'.

19. The maximum pulse repetition frequency (PRF) that can be used by a primary radar facility in order to detect targets unambiguously at a range of 50 NM is:(pps = pulses per second)

- a) 610 pps
- b) 3240 pps
- c) 713 pps
- d) 330 NM

20. Which of the following calls is a 'general call'?

- a) ALL STATIONS Stephenville CONTROL
- b) YX-EFG, YX-FGH over
- c) YX-DEF Stephenville CONTROL
- d) YX-ABC, YX-BCD, YX-CDE Stephenville CONTROL

21. Longitudinal separation minima based on distance using DME for aircraft at the same cruising level and track, provided that each aircraft utilises 'on Track' DME stations and separation is checked by obtaining simultaneous DME readings, is:

- a) 25 NM
- b) 10 NM
- c) 40 NM
- d) 20 NM

22. In computer technology, a storage peripheral is a:

- a) Key Board
- b) Printer
- c) Screen unit
- d) Hard disk drive

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23. What is the correct suffix to be used when establishing radio contact in an area control centre?

- a) Control
- b) Centre
- c) Control centre
- d) Radio

24. How should a pilot inform the ATS unit that their aircraft does not have 8.33 KHz capability?

- a) We do not have this frequency
- b) Negative eight point three three
- c) Negative eight point three three frequency equipment
- d) My aircraft is not equipped with eight point three three

25. Breathing 100% oxygen will elevate the pilot's physiological safe altitude to approximately:

- a) 40 000 ft
- b) 45 000 ft
- c) 22 000 ft
- d) 10 000

26. When applying carburettor heating:

- a) The mixture becomes richer.
- b) No change occurs in the mixture ratio.
- c) The mixture becomes leaner.
- d) A Decrease In Rpm Results From The Lean Mixture.

27. A public transport passengers aeroplane, with a seating configuration of more than 61 seats, must have in its passenger compartment(s), at least 3 hand fire-extinguishers including:

- a) 1 halon fire-extinguisher or equivalent.
- b) 3 halon fire-extinguishers or equivalent.
- c) 2 halon fire-extinguishers or equivalent.
- d) No halon fire-extinguisher.

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28. The great circle distance between position A (59°34.1'N 008°08.4'E) and B (30°25.9'N 171°51.6'W) is:

- a) 10 800 km
- b) 2 700 NM
- c) 5 400 NM
- d) 10 800 NM

29. In which situation would the wing lift of an aeroplane in straight and level flight have the highest value?

- a) Forward centre of gravity and take-off thrust
- b) Aft centre of gravity and idle thrust
- c) Aft centre of gravity and take-off thrust
- d) Forward centre of gravity and idle thrust

30. The so-called 'Seat-of-the-Pants' sense is

- a) Only to be used by experienced pilots with the permission to fly in IMC
- b) Not suitable for spatial orientation when outside visual references are lost
- c) The only sense a pilot can rely on, when flying in IMC
- d) Useful for instrument and contact flight

31. A Category I precision approach (CAT I) is an approach which may be carried out with a runway visual range of at least:

- a) 500 m
- b) 800 m
- c) 350 m
- d) 550 m

32. At flight level and mach number constant, if OAT decreases, the CAS:

- a) Decreases.
- b) Increases.
- c) Decreases if OAT is lower than standard temperature, increases in the opposite case.
- d) Remains constant.

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33. Aircraft told to contact Stephenville Radar on 132.010. Response if unable to comply:

- a) Negative channel 132.010
- b) Negative frequency 132.008
- c) Negative 8 point 3 3
- d) Negative on 132.010

34. A headwind component increasing with altitude, as compared to zero wind condition, (assuming IAS is constant):

- a) Does not have any effect on the angle of flight path during climb
- b) Has no effect on rate of climb
- c) Decreases angle and rate of climb
- d) Improves angle and rate of climb

35. Refer to CAP697 MRJT1 Figure 4.5.4 (Descent) A descent is planned at .74/250KIAS from 35000ft to 5000ft. How much fuel will be consumed during this descent?

- a) 150kg
- b) 140kg
- c) 278kg
- d) 290kg[see Annex]

36. The angle of climb with flaps extended, compared to that with flaps retracted, will normally be:

- a) Larger
- b) Smaller
- c) Increase at moderate flap setting, decrease at large flap setting
- d) Not change

37. By what percentage does the lift increase in a level turn at 45° angle of bank, compared to straight and level flight?

- a) 31%
- b) 19%
- c) 52%
- d) 41%

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38. During the formation of rime ice in flight, water droplets freeze

- a) Slowly and spread out
- b) Slowly and do not spread out
- c) Rapidly and spread out
- d) Rapidly and do not spread out

39. What is the average vertical extent of radiation fog?

- a) 2 000 FT.
- b) 5 000 FT.
- c) 500 FT.
- d) 10 000 FT.

40. Given: Runway direction 210°(M), Surface W/V 230°(M)/30kt. Calculate the cross-wind component?

- a) 16 kt
- b) 19 kt
- c) 13 kt
- d) 10 kt

41. 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

42. The function of a fusible plug is to

- a) Protect The Brake Against Brake Disk Fusion Due To Excessive Temperature.
- b) Function as a special circuit breaker in the electric system
- c) Protect the tyre against explosion due to excessive temperature.
- d) Protect Against Excessive Pressure In The Pneumatic System.

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43. The angle of attack of a two dimensional wing section is the angle between:

- a) The chord line of the aerofoil and the fuselage centreline
- b) The chord line of the aerofoil and the free stream direction
- c) The chord line and the camber line of the aerofoil
- d) The fuselage centreline and the free stream direction

44. Shall an ATC route clearance always be read back:

- a) No, if the communication channel is overloaded
- b) No, if the ATC route clearance is transmitted in a published form (e.g. Standard Instrument Departure Route/SID)
- c) No, if the content of the ATC clearance is clear and no confusion is likely to arise
- d) Yes, unless authorized otherwise by ATS authority concerned

45. What determines the longitudinal stability of an aeroplane ?

- a) The effectiveness of the horizontal stabilizer, rudder and rudder trim tab.
- b) The location of the centre of gravity with respect to the neutral point.
- c) The dihedral, angle of sweepback and the keel effect.
- d) The relationship of thrust and lift to weight and drag.

46. Which 'code letter' shall be chosen to identify a taxiway to be used by an aircraft having a wheel base of 15 m?

- a) Code letter 'D'
- b) Code letter 'F'
- c) Code letter 'E'
- d) Code letter 'C'

47. Regarding Aerodrome Flight Information Service (AFIS):

- a) Its purpose is to supply ATC services but it is not a state organisation.
- b) It has the same privileges and prerogatives as an ATC organisation but its activity is neither continuous nor regular.
- c) It can only supply limited services to the users and under no circumstances may it supply ATC services.
- d) Its only purpose is to relay ATC information to the aircraft in flight or on the ground.

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48. A laser gyro consists of:

- a) A laser generating two light waves.
- b) Two moving cavities provided with mirrors.
- c) 2 electrodes (anode and cathode).
- d) A gyro with 2 degrees of freedom.

49. From the following list:1. Fuel jettisoning system and its operation are free from fire hazard2. The fuel discharges clear of any part of the aeroplane3. Fuel fumes do not enter any part of the aeroplane4. The jettisoning operation does not adversely affect the controllability of the aeroplane.Which of the above are requirements that must be shown to exist during fuel jettisoning tests:

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

50. What does the word 'wilco' mean?

- a) I read you five
- b) I have received all of your last transmission
- c) As communication is difficult, I will call you later
- d) I understand your message and will comply with it

51. For an aeroplane with a tyre pressure of 10 bars, there is a risk of dynamic hydroplaning as soon as the:

- a) Speed is greater than 108 kt.
- b) Runway temperature is greater than 40
- c) Speed is greater than 96 kt.
- d) Water depth is equal to the half of the depth of the tyre grooves.

52. Just prior to departure, you accept 10 passengers additional on board who will be seated in 'compartment OC' and you have 750 kg unloaded from cargo compartment 5.The take-off centre of gravity in MAC % (Mean Aerodynamic Chord) will be located at:

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		<h2>LOAD and TRIM SHEET</h2>			
DRY OPERATING WEIGHT CONDITIONS		AIRCRAFT REGISTER:		DRY OPERATING WEIGHT	
WEIGHT (1000 kg)	CG (% MAC)	DATE:	PREPARED BY:	WEIGHT DEVIATION (PANTRY)	110.000
110	30,5%			CORRECTED DRY OPER WEIGHT	110.100
		FLT Nbr:		CARGO	11.500
		FROM:	TO:	PASSENGERS $2'4'0 \times 7'5 =$	18.000
DRY OPER WEIGHT INDEX				ZERO FUEL WEIGHT	139.600
	119,1			TOTAL FUEL	72.000
				TOTAL WEIGHT	211.600

ZONES	E	F	G
WEIGHT (kg)			
DEVIATION		+100	

BASIC INDEX CORRECTION			
DRY OPER. WEIGHT DEVIATION	ZONES		
	E	F	G
+ 100 kg			
- 100 kg			
INDEX CORRECTION		-0,51	

CORRECTED INDEX

118,6

ZONES	Nbr	Weight (kg)
CARGO 1		2.500
CARGO 2		3.000
CARGO 3		3.000
CARGO 4		2.000
CARGO 5		1.000
CABIN OA	20	
CABIN OB	120	
CABIN OC	100	

FUEL INDEX	+8
SEE TABLE OVERLEAF	

NOTA

TAKE OFF
CG % MAC

2,9 | 9

FUEL INDEX
WEIGHT CG
tons % MAC

1,3 | 9 | 6 | 3,0 | 5

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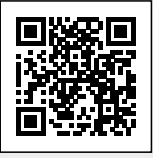


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- a) 29.5 %
- b) 27.8 %
- c) 27.2 %
- d) 30.5 %

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53. JAR-OPS 1 requires that a co-pilot does not serve at the flight controls (as pilot flying or pilot non-flying) as part of the minimum certificated crew unless:

- a) He has operated the controls as a pilot for three take-offs and landings in an aeroplane in the preceding 90 days.
- b) He has operated the controls as a pilot for three take-offs and landings in an aeroplane of the same type/class or in a flight simulator of the aeroplane type to be used in the preceding 60 days.
- c) He has operated the controls as a pilot for three take-offs and landings in an aeroplane in the preceding 60 days.
- d) He has operated the controls as pilot flying for three take-offs and landings in an aeroplane of the same type/class or in a flight simulator of the aeroplane type to be used in the preceding 90 days.

54. The function of the slot between an extended slat and the leading edge of the wing is to:

- a) Cause a venturi effect which energizes the boundary layer
- b) Slow the air flow in the slot so that more pressure is created under the wing
- c) Reduce the wing loading
- d) Allow space for vibration of the slat

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

- 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

56. When an aircraft is no longer in distress, it shall transmit a message cancelling the distress condition. Which words shall this message include?

- a) ... MAYDAY, resuming normal operations
- b) ... MAYDAY cancelled
- c) ... cancel distress
- d) ... distress condition terminated

57. 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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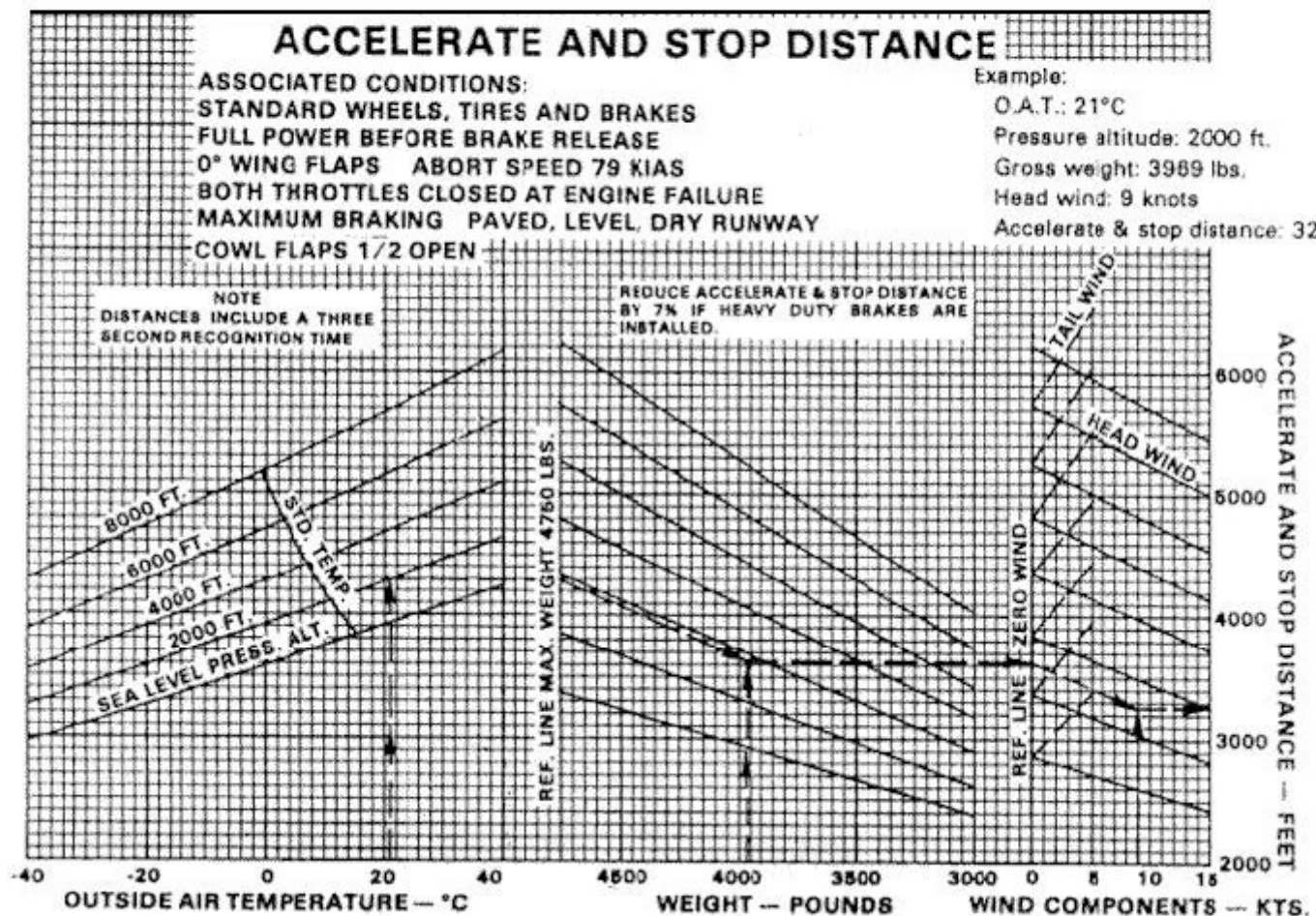
58. At reference or use Performance Manual MEP 1 Figure 3.2 Given: OAT: -10°C Pressure Altitude: 4000' RWY: 30L Wind: $180^{\circ}/10$ KTTake off Mass: 4600 lbs Heavy Duty Brakes installed Other conditions as associated in the header of the graph. What is the Accelerate and Stop Distance under the conditions given?

CIVIL AVIATION AUTHORITY
PERFORMANCE - AEROPLANES

DATA SHEET
MEP 1

Figure 3.2 Accelerate/Stop Distance

Flaps 0°



- a) 4250 ft
- b) 3550 ft
- c) 3800 ft
- d) 4600 ft

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59. During a category III automatic approach, the position signals in the vertical plane under 200 ft are based on:

- a) An altimeter set to the QFE.
- b) A radio altimeter.
- c) An altimeter set to 1013 hPa.
- d) An altimeter set to the QNH.

60. Given: Airport elevation is 1000 ft. QNH is 988 hPa. What is the approximate airport pressure altitude? (Assume 1 hPa = 27 FT)

- a) 1 US-GAL equals 4.55 litres
- b) 1 litre equals 3.78 US-GAL
- c) 1 litre equals 4.55 US-GAL
- d) 1 US-GAL equals 3.78 litres

61. In the month of August you prepare a flight (cruising level FL 370) from Bombay (19°N - 73°E) to Bangkok (13°N - 100°E). What wind conditions can you expect?

- a) Headwinds
- b) Strong northerly winds
- c) Tailwinds
- d) Light winds diagonal to the route

62. 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

63. The total length of the 53°N parallel of latitude on a direct Mercator chart is 133 cm. What is the approximate scale of the chart at latitude 30°S?

- a) 1: 30 000 000
- b) 1: 25 000 000
- c) 1: 21 000 000
- d) 1: 18 000 000

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64. ICAO recommendations are that range errors indicated by Distance Measuring Equipment (DME) should not exceed:

- a) + or - 0.5 NM or 3% of the distance measured whichever is the greater
- b) + or - 0.25 NM plus 1.25% of the distance measured
- c) + or - 0.25 NM plus 3% of the distance measured up to a maximum of 5 NM
- d) + or - 1.25 NM plus 0.25% of the distance measured

65. AIP Which part of the AIP gives detailed information about refuelling facilities and the fuel grades available?

- a) AD
- b) FAL
- c) GEN
- d) ENR

66. Which of the following statements about the accuracy that can be obtained with the LAAS (local area augmentation system) of the satellite navigation system of the satellite navigation system NAVSTAR/GPS is correct?

- a) A LAAS cannot correct for satellite timing and orbital position error.
- b) The increase in accuracy of position fixes is independent of the aircraft position in relation to the LAAS ground reference station.
- c) A LAAS corrects the position of the aircraft by relaying the information via a geo-stationary satellite.
- d) Pole to pole

67. Which of the following lists information required to input a waypoint or 'Phantom Station' into a basic VOR/DME-based Area Navigation System?

- a) Magnetic track and distance from the aircraft to the waypoint or 'Phantom Station'
- b) Magnetic track and distance to a VOR/DME from the waypoint or 'Phantom Station'
- c) Radial and distance from a VOR/DME to the waypoint or 'Phantom Station'
- d) Beam width

68. If a failed RMI rose is stuck on 090° and the ADF pointer indicates 225°, the relative bearing to the station will be:

- a) Impossible to read, due to failure RMI.
- b) 315°.
- c) 135°.
- d) 225°.

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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 does the word " WILCO" mean?

- a) I read you fine.
- b) I understand your message and will comply with it.
- c) I have received all of your last transmission.
- d) As communication is difficult, I will call you later.

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Response Scheme

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

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