RADIO NAVIGATION

4604	62	In which frequency band do Satellite-Assisted Navigation systems (GNSS/GPS) provide position information that is available to civil aircraft?	UHF	SHF	EHF	VHF	1	0	0	0
		The Doppler Navigation System is based on:	doppler VOR (DVOR) Navigation System	phase comparison from ground station transmission s	radar principles using frequency shift	radio waves refraction in the ionosphere				
4605	62						0	0	1	0
4606	62	What is the maximum number of usable Secondary Surveillance Radar (SSR) transponder codes?	760	4096	3600	1000	0	1	0	0
4607	62	Which of the following is a complete list of airbome weather radar antenna stabilisation axes?	roll and yaw	roll and pitch	roll, pitch and yaw	pitch and yaw	0	1	0	0
4608	62	In an Airborne Weather Radar that has a colour cathode ray tube (CRT) increasing severity of rain and turbulence is generally shown by a change of colour from:	green to yellow to red	yellow to amber to blue	green to red to black	yellow to orange to red		0		
4609	62	The azimuth transmitter of a Microwave Landing System (MLS) provides a fan-shaped horizontal approach zone which is usually:	+ or - 30° of the runway centre-line	+ or - 40° of the runway centre-line	+ or - 50° of the runway centre-line	+ or - 60° of the runway centre-line		1		
4000	<u> </u>	The two main design functions of Secondary Surveillance Radar (SSR) Mode Sare:	air to ground and ground to air data link communicati ons and improved ATC aircraft surveillance capability	collision avoidance using TCAS II and improved long range (HF) communicati on capability.	continuous automatic position reporting using Global Positioning System (GPS) sat ellites and collision avoidance using TCAS	the elimination of ground to air communicati ons and the introduction of automatic separation between aircraft using TCAS II			0	
4610	62						1	0	0	0
4611	62	In the NAVSTAR/GPS satellite navigation system, 'Selective Availability' (SA) gives the option to artificially degrade the accuracy by:	offsetting satellite atomic clocks by a predetermine d constant amount	dithering the sat ellite clock	shutting off selected sat ellites	using a less accurate atomic clock in a satellite for signal processing	0	1	0	
	62	In a Satellite-Assisted Navigation system (GNSS/GPS) a position line is obtained by:	the aircraft's receiver measuring the phase angle of the signal received from a satellite in a known position	timing the period that is taken for a transmission from the aircraft's transmitter/re ceiver to reach and return from a satellite in a known position	the aircraft's receiver measuring the time difference between signals received from a minimum number of sat ellites	timing the period that is taken for a satellite's transmission to reach the aircraft's receiver		0		

4613	62	On which of the following radar displays is it possible to get an indication of the shape, and to some extent the type, of the aircraft generating the return?	Aerodrome Surveillance (approach) Radar	Airbome Weather Radar (AWR)	Aerodrome Surface Movement Radar (ASMR)	Secondary Surveillance Radar (SSR)	0	0	1	0
	62	Which of the following statements concerning LORAN-C is correct?	It is a navigation system based on secondary radar principles; position lines are obtained in sequence from up to eight ground stations	It is a hyperbolic navigation system that works on the principle of range measuremen t by phase comparison	It is a navigation system based on simultaneous ranges being receive d from a minimum of four ground stations	It is a hyperbolic navigation system that works on the principle of differential range by pulse technique			0	
		What is the colour sequence when passing over an Outer, Middle and Inner Marker beacon?	amber - white -	white - amber -	blue - green -	blue - amber -				
4615	62	Which of the following statements concerning the variable, or directional, signal of a conventional VOR is correct?	green The receiver adds 30 Hz to the variable signal before combining it with the reference signal	blue The rotation of the variable signal at a rate of 30 times per second gives it the characteristic s of a 30 Hz amplitude modulation	white The transmitter varies the amplitude of the variable signal by 30 Hz each time it rotates	white The transmitter changes the frequency of the variable signal by 30 Hz either side of the allocated frequency each time it rotates	0	0	0	1
4616	62						0	1	0	0
4617	62	What is the minimum number of NAV STAR/GPS satellites required to produce an accurate independent 3-D position fix?	5	24	3	4	0	0	0	1
4618	62	The receiver aerial for a NAVSTAR/GPS system should be mounted:	on the upper side of the fuselage in the vicinity of the centre of gravity	inside the tail fin to minimise the influence of reflections from the wing and fuselage	in the vicinity of the receiver to avoid long transmission lines	under the fuselage in order to receive correction data transmitted by D-GPS stations	1	0	0	0
	62	When an aircraft is operating its Secondary Surveillance Radar in Mode C an air traffic controller's presentation gives information regarding the aircraft's indicated flight level that is accurate to within:	+ or - 50 FT	+ or - 75 FT	+ or - 100 FT	+ or - 25 FT			0	
	62	Which of the following correctly gives the principle of operation of the Loran C navigation system?	Differential range by phase comparison	Phase comparison between synchronised transmission s	Differential range by pulse technique	Frequency shift between syn chronised transmission s			1	
		Which of the following lists phenomena that CANNOT be detected by weather radar?	snow; clear air turbulen ce	dry hail; clear air turbulence	clear air turbulence; turbulence in cloud with precipit ation	snow; turbulence in clouds with precipitation				
4621	62						1	0	0	0

		Given:	ahead of the	ahead of the	behind the	behind the					T
		Aircraft heading 160°(M),	aeroplane	aeroplane	aeroplane	aeroplane					
			symbol with the FROM	symbol with the TO flag	symbol with the FROM	symbol with the TO flag					
		Aircraft is on radial 240° from a VOR,	flag showing	showing	flag showing	showing					
4622	62	Selected course on HSI is 250°.						0	0	1	0
		A frequency of 10 GHz is considered to be the optimum for	less power	the larger	greater detail	static					┪
		use in an airborne weather radar system because:	output is required in	water droplets will	can be obtained at	interference is minimised					
			the mapping	give good	the more	is illillilliseu					
			mode	echoes and	distant						
				the antenna	ranges of						
				can be kept relatively	the smaller water						
				small	droplets						
4623	62	Miles and the second						0	1	0	0
		When switching on the weather radar, after start-up, a single very bright line appears on the screen.	receiver is faulty	scanning of the cathode	transmitter is faulty	scanneris not rotating					
			1.0.0.19	ray tube is	1.5.5						
4624	62	This means that the:		faulty				0	1	0	0
		In relation to radar systems that use pulse technology, the term 'Pulse Recurrence Rate (PRR)' signifies the:	delay after which the	the number of cycles per	ratio of pulse period to	number of pulses per					
		Talle I die in the man in the interest of the	process	second	pulse width	second					
4625	62		re-starts					0	0	0	1
		The heading rose of an HSI is frozen on 200°.	right of centre	centred with the 'fail' flag	centred	left of centre					
		Lined up on the ILS of runway 25, the localizer needle will		showing							
4626	62	be:						0	0	1	0
		Which of the following gives the best information about the	ATA	Elapsed time	ETO	ETD					
4627	62	progress of a flight between 2 en-route waypoints from a RNAV equipment?		on route.				0	0	1	0
		What is the minimum number of satellites required for a	5	2	3	4		П		┪	ヿ
		Satellite-Assisted Navigation System (GNSS/GPS) to carry									
4628	62	out two dimensional operation?						0	0	1	0
		The frequency range of a VOR receiver is :	108 to	108 to	108 to	118 to					╗
4629	62	The maximum theoretical range at which an aircraft at	135.95 MHz 190 NM	117.95 MHz 230 NM	11 1.95 MHz 170 NM	135.95 MHz 151 NM		0	1	0	0
		FL230 may receive signals from a VOR facility sited at	190 INIVI	230 INIVI	17 O INIVI	I 13 I INIVI					
4630	62	mean sea level is:						1	0	0	0
		A radar facility transmitting at a Pulse Recurrence Frequency (PRF) of 1200 pulses/second will have a	27 NM	69 NM	135 NM	270 NM					
4631	62	maximum unambiguous range of approximately:						0	1	0	0
		Which of the following combinations is likely to result in the	NDB/VOR	VOR/VOR	DME/DME	VOR/DME					٦
4632	62	most accurate Area Navigation (RNAV) fixes?						0	0	₁	٥
1002		Which one of the following is an advantage of a Microwave	It does not	The	There is no	It is		Ť	Ť	Ť	Ť
		Landing System (MLS) compared with an Instrument	require a	installation	restriction on	insensitive					
		Landing System (ILS)?	separate azimuth	do es not require to	the number of ground	to geographi cal site and					
			(localiser)	have a	installations	can be					
			and	separate	that can be	installed at					
			elevation (azi	method	operated.	sites where					
			muth) transmitter	(marker beacons or	because there is an	it is not possible to					
			ti ai ionii iio	DME) to	unlimited	use an ILS					
				determine	number of						
				range	frequency channels						
					available						
4633	62							0	0	0	1
		In an Airborne Weather Radar that has a colour cathode ray	large areas	iso-echo	colour zones	blank					
		tube (CRT) the areas of greatest turbulence are indicated on the screen by:	of flashing red colour	areas which are coloured	being closest together	iso-echo areas where					
				black	""	there is no					
4634	62	The frequency of an CCD arranged transport in the	11.00 :/ 0.0	1020 -/ 0.0	1050 -/ 0.5	colour		0	0	1	0
4635	62	The frequency of an SSR ground transmission is:	1120 +/- 0.6 Mhz	1030 +/- 0.2 Mhz	1050 +/- 0.5 Mhz	1090 +/- 0.3 Mhz		0	1	0	0
							•				_

		A VOR and DME are co-located.	DME callsign	DME callsign	DME callsign	VORand				
		You want to identify the DME by listening to the callsign.	is the one with the	was not transmitted,	is the one with the	DME callsigns				
		Having heard the same callsign 4 times in 30 seconds the:	higher pitch	the distance	lower pitch	were the				
		Training hours the same sameign runnes in seconds the	that was	information	that was	same and				
			broadcast only once	is sufficient proof of	broadcast several times	broadcast with the				
			omy onco	correct		same pitch				
				operation						
4636	62						1	0	0	0
		How does a receiver of the NAVSTAR/GPS satellite	The data is	It calculates	The data is	The data is				П
		navigation system determine the elevation and azimuth data of a satellite relative to the location of the antenna?	determined by the	it by using Almanac	stored in the receiver	based on the direction				
		data of a catolike rolative to the location of the alkelina.	satellite and	data	together with	to the				
			transmitted	transmitted	the Pseudo	sat ellite				
			together with the	by the sat ellites	Random Noise (PRN)	determined at the				
			na vigation m	Satemies	code	location of				
			essage			the antenna				
4637	62	A Cat III II S alidopath transmitter provides reliable avides	the surface	a mavimum	a mavimum	a mavimum	0	1	0	0
		A Cat III ILS glidepath transmitter provides reliable guidance information down to:	the surface of the runway	a maximum height of 200	a maximum height of 100	a maximum height of 50				
			0	ft above the	ft above the	ft above the				
4638	62			runway	runway	runway	 	0	٥	
4036	02	Which of the following equipments works on the	Secondary	Global	Airbome	Aerodrome	H	0	0	Н
		interrogator/transponder principle?	Surveillance	Positioning	Weather	Surface				
4639	62		Radar (SSR)	System	Radar (AWR)	Movement Radar	₁	0	Λ	١
4039	02	Which of the following equipments uses primary radar	Distance	(GPS) Global	Airbome	Secondary	H	0	U	Н
		principles?	Measuring	Positioning	weather	Surveillance				
4640	62		Equipment (DME)	System (GPS)	radar (AWR)	Radar (SSR)	0	۸	1	
4040	02	What is the minimum level that an aircraft, at a range of 113	FL50	FL80	FL100	FL60		0	•	H
		NM, must fly in order to contact the tower on R/T for a VDF								
4641	62	bearing from an airport sited 169 FT above MSL?					0	۸	Λ	1
7071		An aircraft at FL 100 should be able to receive a VOR	130 NM	142 NM	135 NM	123 NM	Ť	_	_	H
40.40		groundstation at 100 FT above MSL at an approximate								
4642	62	maximum range of : In relation to Area Navigation Systems (RNAV), which of the	Doppler drift	True airspeed	Inertial	VOR/DME	0	0	1	\mathbb{H}
		following is an Air Data input?	Doppici di ili	Truc unopecu	Navigation	radia // distanc				
					System	е				
4643	62				(INS) positio		0	1	0	0
10 10		In which frequency band do most airborne weather, and	EHF	VHF	SHF	UHF				П
1611	62	ground based ATC, radar systems operate?						٦	1	
4644	02	Which one of the following correctly lists the major ground	Separate	Combined	Combined	Separate	0	U	1	U
		based components of a Microwave Landing System (MLS)?	azimuth and	azimuth and	azimuth and	azimuth and				
			elevation	elevation	elevation	elevation				
			transmitters, outer and	transmitter, DME facility	transmitter, outer and	transmitters, DME facility				
			middle		inner marker					
			marker		beacons					
4645	62		beacons				0	0	0	1
		An aircraft at 6400 FT will be able to receive a VOR	100 NM	120 NM	110 NM	90 NM	П			\sqcap
16.16	62	groundstation at 100 FT above MSL at an approximate					0	٦	1	
4646	02	maximum range of : If an aircraft flies along a VOR radial it will follow a:	line of	constant	great circle	rhumbline	U	U	1	
		and an analysis and a second at the following and the second at the seco	constant	magnetic	track	track				
4647	62		bearing	track			0	0	1	0

4648	62	Which one of the following methods is used by a Microwave Landing System (MLS) to indicate distance from the runway threshold?	A DME co-located with the MLS transmit ters	Timing the interval between the transmission and reception of primary radar pulses from the aircraft to MLS station	of the frequency shift between the	Timing the interval between the reception of sequential secondary radar pulses from the MLS station to the aircraft	1	5	0	
		Which of the following geometric satellite constellations provides the most accurate NAVSTAR/GPS position fix?	3 satellites with an azimuth of 120° from each other and an elevation of 45° above the horizon	4 satellites with an azimuth of 90° from each other and a low elevation above the horizon	4 satellites with an azimuth of 90° from each other and an elevation of 45° above the horizon	3 satellites with a low elevation above the horizon and an azimuth of 120° from each other toget her with a fourth directly overhead				
4649	62	The theoretical maximum range for an Airborne Weather	pulse	transmission	size of the	transmission	U	U	0	\dashv
4650	62	Radar is determined by the:	recurrence frequency	power	aerial	frequency	1	0	0	0
4054	62	Which of the following statements about the accuracy that can be obtained with the differential technique (D-GPS) of the satellite navigation system NAVSTAR/GPS is correct?	Only D-GPS allows position fixes accurat e enough for 'Non Precision Approaches'	The nearer a receiver is situated to a D-GPS ground station, the more accurate the position fix	The increase in accuracy of position fixes is independent of the receiver position in relation to a D-G PS ground station	A D-GPS receiver can detect and correct for SA providing a more accurate position fix	0	1	0	
4651	62	An aircraft is on radial 120 with a magnetic heading of 300°,	left with	left with 'TO'	right with	right with	U	1		Н
40.50	00	the track selector (OBS) reads: 330. The indications on the Course Deviation Indicator (CDI) are 'fly':	'FROM' showing	showing	'TO' showing	'FROM' showing			_	
4652 4653	62	In relation to the NAVSTAR/GPS satellite navigation system, 'Search the Sky' is a:	continuous procedure performed by the receiver that searches the sky for satellites rising a bove the horizon	procedure that starts after switching on a receiver if there is no stored sat ellite data available	continuous process by the ground segment to monitor the GPS satellites	procedure performed by the receiver to recognise new satellites bec oming operational			0	
4000	02	Which one of the following sensors/systems is self-contained and obtains no external information?	VOR/DME radia // distanc e	Inertial Navigation System (INS) positio	Pressure altitude	Magn etic he ad in g	0	1	0	
4654	62			n			0	1	0	0

40.55		What is the procedure to be followed if, on a flight under IFR conditions using the NAVSTAR/GPS satellite navigation system, the number of satellites required to maintain the RAIM (Receiver Autonomous Integrity Monitoring) function are not available?	The flight may be continued as planned if at least 4 sat ellites are available and the pilot monitors the GPS-System manually	The flight may be continued using other certificated navigation systems	The flight has to be continued under VFR conditions	A constant heading and speed must be flown until the required number of satellites are again available				
4655	62	An RMI slaved to a remote indicating compass has gone	Radial 315°,	Radial 135°,	Radial	Radial	0	1	0	0
4656	62	unserviceable and is locked on to a reading of 090°. The tail of the VOR pointer shows 135°. The available information from the VOR is:	relative bearing unknown	relative bearing unknown	unknown, relative bearing 225°	unknown, relative bearing 045°	0	1	0	0
4657	62	In general the operation of airborne weather radar equipment on the ground is:	un restrict edly permitted in aero drome maintenance areas	only permitted wit h certain precautions, to safeguard health of personnel and to protect equipment	pemitted anywhere	totally prohibited	0	1	0	0
		Which one of the following inputs to an Area Navigation System (R-NAV) comes from an external, not on-board, system?	Magnetic heading	Inertial Navigation System (INS) positio	Pressure altitude	VOR/DME radial/distanc e				
4658	62			n			0	0	0	1
4659	62	The amplitude modulation and the colour of an outer marker (OM) is:	1300 Hz, blue	400 Hz, amber	400 Hz, blue	3000 Hz, blue	0	0	1	0
		An RMI indicates aircraft heading. To convert the RMI bearings of NDBs and VORs to true bearings the correct combination for the application of magnetic variation is:	NDB: aircraft position VOR: beacon	NDB: beacon position VOR: beacon	NDB: beacon position VOR: aircraft	NDB: aircraft position VOR: aircraft				
			position	position	position	position				
4660	62	An aircraft is flying on the true track 090° towards a VOR station located near the equator where the magnetic variation is 15°E. The variation at the aircraft position is 8°E.	262°	285°	255°	278°	1	0	0	0
4661	62	The aircraft is on VOR radial:	10.0%	00.00	27.00	20.00	0	0	1	0
		Given: Magnetic heading 280° VOR radial 090°	100°	090°	270°	280°				
4662	62	What bearing should be selected on the omni-bearing A VOR is sited at position 58°00'N 073°00'W where the	208	360	180	212	0	0	1	0
4663	62	magnetic variation equals 32°W. An aircraft is located at position 56°00'N 073°00'W where the magnetic variation equals 28°W.			.50		 0	0	0	1
		In order to plot a bearing from a VOR station, a pilot needs to know the magnetic variation:	at the half-way point between the aircraft and	at both the VOR and aircraft	at the VOR	at the aircraft location				
4664	62		the station				0	0	1	0

		In relation to the NAVSTAR/GPS satellite navigation system, what is involved in the differential technique (D-GPS)?	The difference between signals transmitted on the L1 and L2 frequencies are processed by the receiver to determine an error correction	Receivers from various manufacturer s are operated in parallel to reduce the characteristic al receiver noise error	Signals from satellites are received by 2 different antennas which are located a fixed distance apart. This enables a suitable receiver on the aircraft to recognise and correct for multipath errors	Fixed ground stations compute position errors and transmit correction data to a suitable receiver on the aircraft				
4665	62		0075 011	0075	00.75.***	0075 * " /		0		
4666 4667	62	A frequency of airborne weather radar is: In the event of the use of Selective Availability, how does this affect, if at all, the navigation accuracy of the NAVSTAR/GPS satellite navigation system?	9375 GHz It degrades accuracy by reducing the number of available satellites	9375 kHz It degrades position accuracy by manipulating sat ellite signals	93.75 MHz It increases because only signals from sat ellites in the most suitable geometric constellation are selected by the receiver	9375 MHz It has no influence because, by selecting of the most suitable signals, the computing process in the receiver is quicker		1		
4001	02	Given:	160°	193°	167°	347°		İ		H
		VOR station position N61° E025°, variation 13°E;								
4668	62	Estimated position of an aircraft N59° E025°, variation 20°E.					٥	0	1	0
	62	DME channels utilise frequencies of approximately:	600 MHz	1000 MHz	300 MHz	110 MHz	П	1		П
	62	An NDB transmits a signal pattern in the horizontal plane which is:	a cardioid balanced at 30 Hz	a beam rotating at 30 Hz	omnidirection al	bi-lobal circular		0		
4671	62	The BFO selector on an ADF receiver is used to:	hear the IDENT and must always be switched ON	find the loop 'null' position	hear the IDENT of some NDB stations radiating a continuous wave signal	stop loop rotation	0	0	1	0
7071		The captain of an aircraft flying at FL100 wishes to obtain	1230 km	123 NM	123 km	12.3 NM	Ť	Ť		H
4672	62	weather information at the destination airfield from the airfield's VOR. At what maximum theoretical range will it be possible to obtain this information?					0	1	0	0
	62	Which of the following is the datum for altitude information when conducting flights under IFR conditions on airways using the NAV STAR/GPS satellite navigation system?	The average of GPS altitude and barometric altitude	GPS altitude	GPS altitude if 4 or more sat ellites are received ot herwise barometric altitude	Barometric altitude		0		

		What datum is used for the Minimum Descent Altitude	If using	Radar altitude	GPS altitude	Barometric				
		(MDA) on a non-precision approach when using the NAVSTAR/GPS satellite navigation system?	Differential-G PS (D-GPS) the altitude obtained from the			altitude				
4674	62		D-GPS, otherwise barometric altitude				0	0	0	1
4674	02	Which of the following procedures must be adopted if, on a	The pilot	It may be	It may be	It must be	U	U	U	H
4675	62	flight under IFR conditions using a NAVSTAR/GPS satellite navigation system receiver, the position fix obtained from the GPS receiver differs from the position of conventional navigation systems by an unacceptable amount?	must determine the reason for the deviation and correct the error or switch off the faulty system	continued using conventional navigation systems	continued using NAVSTAR/G PS; prior to the next flight all systems must be checked	continued under VFR conditions	0	1	0	
	62	Which of the following, if any, is a prerequisite if a receiver of a NAVSTAR/GPS satellite navigation system is to be used in combination with a multi sensor system?	Multi-sensor systems are not certificated for flights under I FR conditions	The prescribed IFR-equipme nt must be installed and operational	The prescribed IFR-equipme nt must be in working correctly and the navigation information continuously displayed	The RAIM-functio n of the GPS receiver must be able to monitor all prescribed navigation systems				0
4677	62	The selection of code 2000 on an aircraft SSR transponder indicates:	unlawful interference with the planned operation of the flight	an emergency	transponder malfunction	entry into airspace from an area where SSR operation has not been require d	0	0	0	1
	62	In which frequency band do VOR transmitters operate?	VHF	UHF	SHF	EHF				П
		In order to indicate an emergency situation, the aircraft Secondary Surveillance Radar (SSR) transponder should	7600	7500	70 00	77 00				
.0.0	62 62	be set to: The ATC transponder system, excluding Mode S, contains:	four modes, each 4096 codes	two modes, each 1024 codes	two modes, each of 4096 codes	four modes, each 1024 codes		0		0
		Which of the following lists are all errors that affect the accuracy and reliability of the Satellite-Assisted Navigation system (GNSS/GPS)?	Satellite mutual interference; frequency drift; satellite to ground time lag	Satellite clock; sat ellite ephemeris; at mospheric propagation	Satellite mutual interference; satellite ephemeris; at mospheric propagation	Satellite to ground time lag; atmospheric propagation; satellite clock				
	62	The maximum range of primary radar depends on :	pulse length	pulse recurrence	wave length	frequency		1		
4682	62	Which of the following is an ILS localiser frequency?	112.10 MHz	frequency 109.15 MHz	108.25 MHz	110.20 MHz	0	1	0	0
4683	62						0	1	0	0
4684	62	If the reference phase differs 30° with the variable phase the radial from the VOR station will be :	030°	330°	210°	150°	1	0	0	0

		A DME that has difficulty obtaining a "lock-on":	stays in	stays in	stays in	altemates					
		(NOTE) DDE	search	search	search	search					
		(NOTE: PRF = pulse recurrence frequency,	mode but	mode without	mode but	mode with					
		PPS = pulses per second)	reduces	a reduction	reduces	periods of					
		parado por decemby	PRF to max.	in PRF	PRF to max.	memory					
			60 PPS after		60 PPS after	mode lasting					
			15000 pulse		100 seconds	10 seconds					
			pairs have								
			be en								
685	62		transmitted					1	0	0	0
		Of what use, if any, is a military TACAN station to civil	It is of nouse	It can provide	It can provide	It can provide					
		aviation?	to civil	a DME	a magnetic	DME distance					
			aviation	distance and	bearing						
				magnetic							
				bearing							
686	62							0	0	0	1
		Given: Course Deviation Indicator (CDI) for a VOR is	265	095	275	085					
		selected to 090°.									
		Faces (To be directors in all controls IITO)									
		From/To indicator indicates "TO".									
687	62	ODI no odlo in doflanta d b alferrar to the violet						0	0	1	0
Ī		Which one of the following disturbances is most likely to	Quadrantal	Precipitation	Local	Coastal effect					
		cause the greatest in accuracy in ADF bearings?	error	interference	thunderstorm						
					activity						
688	62							0	0	1	0
		In the NAVSTAR/GPS satellite navigation system, receiver	can be	is negligible	is corrected	is the biggest					
		clock error:	minimised	small	by using	part of the					
			by synchroni	be cause of	signals from	total error; it					
			sation of the	the great	four satellites	can not be					
			receiver	accura cy the		correcte d					
			clock with	atomic clocks							
			the satellite	installed in							
			clocks	the satellites							
1689	62							0	0	1	0
		The influence of the ionosphere on the accuracy of the	negligible	minimised by	minimised by	only					
		satellite navigation system NAVSTAR/GPS is:		the receiver	computing	significant if					
				using a	the average	the satellites					
				model of the	of all signals	are located					
				atmosphere		at a small					
				and		elevation					
				comparing		angle above					
				signals		the horizon					
				transmitted							
				by the							
				satellites							
690	62							0	1	0	0
		Which one of the following is an advantages of a	The GNSS	The	The average	The only					
		multi-sensor system using inputs from a global navigation	can be used	activation of	position	advantage					
		satellite system (GNSS) and an inertial navigational system	to update a	'Selective	calculated	of coupling					
		(INS)?	drifting INS	Availability'	from data	both					
]	can be	provided by	systems is					
			I	recognised	both	double					
				II CCOOLIISED			ı				
						redundancv					
				by the INS	systems incr	redundancy					
					systems incr eases overall	redundancy					
					systems incr	redundancy					

		What are the effects, if any, of shadowing by parts of the	The signals	It has no	It may	It causes				T	П
		aircraft (e.g. wing) on the reception of signals from	will be	influence	prevent the	multipath					i I
		NAVSTAR/GPS satellites?	distorted,	because	reception of	propagation					
			however the	high frequen	signals						1
			error can be	cy signals							i I
			corrected for	are unaffecte							i I
			using an	d							i
			-	ľ							
			algorithm								i I
			and								i
			information								
			from								i
			un affected								
			signals								i I
	_										
4692	62				ļ			0	0	1	0
		A DME in tracking mode subsequently experiences a	search mode	standby mode	1 ~	memory					i
4000		reduction in signal strength will switch the equipment in the			controlled	mode		ا ٍ ا		۱	i . l
4693	62	first instance to:			search			0	0	0	Ш
		Which one of the following switch positions should be used	NORMAL	OFF	STBY	IDENT					i I
		when selecting a code on the Transponder?			(Standby)	(Identification					i I
4694	62)		0	0	1	0
		The reason why pre take-off holding areas are sometimes	heavy	to increase	to increase	aircraft				ſ	
		further from the active runway when ILS Category 2 and 3	precipitation	distance	aircraft	manoeuvring				- [
		landing procedures are in progress than during good	may disturb	from the	separation in	near the					
		weather operations is:	guidance	runway	very reduced	runway may					i I
		·	signals	during offset	visibility	disturb					1
			~	approach	conditions	guidance					i I
				operations		signals					i I
4695	62					0.9.14.0		0	0	0	1
		An aircraft is required to approach a VOR via the 104°	284° with the	284° with the	104° with the	104° with the		H		┪	\square
		radial. Which of the following settings should be made on	TO flag	FROM flag	TO flag	FROM flag					i I
		the VOR/ILS deviation indicator?	_	1	1 -						i I
4696	62	the vortics deviation indicator?	showing	showing	showing	showing		1	ا ۱	0	
4090	02	As almost translation of OOOO(AA) is a set to set on of	00.00	07.00	00.00	40.00		Ľ	U	쒸	\vdash
		An aircraft on a heading of 280°(M) is on a bearing of	280°	270°	090°	100°					i I
		090°(M) from a VO R.									
		The bearing you should select on the OMNI bearing selector									i I
4697	62	to centralise the VOR/ILS left/right deviation needle with a						0	1	0	
4097	02	, and the second	04.40	0.4.40	00.40	00.40		U	_	러	H
		An aircraft is required to approach a VOR station via the	244° with the	244° with the	064° with the	064° with the					i I
		244° radial. In order to obtain correct sense indications the	FROM flag	TO flag	TO flag	FROM flag					i I
40.00		deviation indicator should be set to:	showing	showing	showing	showing		ا ٍ ا			
4698	62					ļ		0	0	1	0
		What is the maximum theoretical range that an aircraft at	147 NM	156 NM	184 NM	220 NM					ı I
		FL150 can receive signals from a VOR situated 609 feet									ı I
4699	62	above MSL?						0	0	1	0
	l	A typical frequency employed in Distance Measuring	100 MHz	100 G Hz	1000 MHz	10 MHz					
4700	62	Equipment (DME) is:						0	0	1	0
		Distance Measuring Equipment (DME) operates in the:	UHF band	VHF band	UHF band	SHF band					ı I
			and is a	and uses the	and is a	and uses				- 1	
	1		secondary	principle of	primary	frequency				- [
			radar system	phase	radar system	modulation				- [
				comparison		te chniques				- [
4701	62			<u></u>				1	0	0	0
		For a conventional DME facility 'Beacon Saturation' will	80	100	200	60			٦	T	
		occur whenever the number of simultaneous interrogations									i I
4702	62	exceeds:		1	1			0	1	0	0
		On a DME, display counters rotating throughout their range	the airbome	airbome	ground	the airbome		П		╛	\square
		indicates:	receiveris	equipment	equipment	equipment is				- [
			conducting a	failure	failure	conducting a				- 1	
			range search			frequency				- [
			Lange scaron	1	1	search				- [
				1						- [
4703	62			1	1			1	_ი	0	0
., 50	<u> </u>	<u>L</u>	L				I	لئا		لت	لت

		The aircraft DME receiver is able to accept replies to its own	pulse pairs	aircraft	transmission	pulse pairs				
		transmissions and reject replies to other aircraft interrogations because:	are amplitude modulated with the aircraft registration	interrogation signals and transponder responses are 63 MHz removed from each other	frequencies are 63 MHz different for each aircraft	are discreet to a particular aircraft				
	62	The aircraft DME receiver cannot lock on to interrogation signals reflected from the ground because:	DME pulse recurrence rates are varied	aircraft transmitter and DME ground station are transmitting on different frequencies	reflections are subject to doppler frequency shift	DME transmits twin pulses			0	
4706	62	The design requirements for DME stipulate that, at a range of 100 NM, the maximum systematic error should not exceed:	+ or - 1.5 NM	+ or - 3 NM	+ or - 0.25 NM	+ or - 1.25 NM	1	0	0	0
4707	62	In which situation will speed indications on an airborne Distance Measuring Equipment (DME) most closely represent the groundspeed of an aircraft flying at FL400?	When tracking directly towards the station at a range of 100 NM or more	When passing abeam the station and within 5 NM of it	When overhead the station, with no change of heading at transit	When tracking directly away from the station at a range of 10 NM	1	0	0	0
	62	Which one of the following lists information given by a basic VOR/DME-based Area Navigation System?	Aircraft position in latitude and longitude	Wind velocity	True airspeed; drift angle	Crosstrack distance; alongtrack distance; angular course deviation			0	
4709	62	A Category 1 Instrument Landing System (ILS) ground installation provides accurate guidance from coverage limit down to:	runway surface	200 feet above the inner marker	200 feet above the runway threshold	50 feet above ILS reference point	0	0	1	
		If VOR bearing information is used beyond the published protection range, errors could be caused by:	sky wave interference from distant transmitters on the same frequency	interference from other transmitters	noise from precipitation static exceeding the signal strength of the	sky wave interference from the same transmitter				
	62 62	An aircraft tracking to intercept the Instrument Landing System (ILS) localiser inbound on the approach side, outside the published ILS coverage angle:	may receive false course indications	will not normally receive signals	transmitter will receive signals without identification coding	can expect signals to give correct indications			0	
	62	The MIDDLE MARKER of an Instrument Landing System (ILS) facility is identified audibly and visually by a series of:	two dashes per second and a blue light flashing	dots and a white light flashing	dashes and an amber light flashing	alternate dots and dashes and an amber light flashing		0	0	
11 12	3-	The OUTER MARKER of an Instrument Landing System (ILS) facility transmits on a frequency of:	75 MHz and is modulated by morse at two dashes per second	200 MHz and is modulated by alternate dot/dash in morse	75 MHz and is modulated by alternate dot/dash in morse	300 MHz and is modulated by morse at two dashes per second				
4713	62	What approximate rate of descent is required in order to	950 FT/MIN	600 FT/MIN	550 FT/MIN	800 FT/MIN	1	0	0	0
4714	62	maintain a 3° glide path at a groundspeed of 120 kt?					0	1	0	0

		The outer marker of an ILS with a 3° glide slope is located	1400 FT	1350 FT	1300 FT	1450 FT					
		4.6 NM from the threshold. Assuming a glide slope height of 50 FT above the threshold, the approximate height of an									
4715	62	aircraft passing the outer marker is:						0	0	0	1
		Airbome weather radar systems use a wavelength of approximately 3 cm in order to:	transmit at a higher pulse repetition	obtain optimum use of the	detect the smaller cloud formati	detect the largerwater droplets					
			frequency for extended range	Cose cant squared be am	ons as well as large						
4716	62							0	0	0	1
		The ISO-ECHO facility of an airborne weather radar is provided in order to:	give an indication of cloud tops	inhibit unwanted ground retums	extend the mapping range	detect areas of possible severe turbulence in cloud					
4717	62					Cloud		0	0	0	1
4718	62	In the MAPPING MODE the airborne weather radar utilises a:	fan shaped beam effective up to a range of 150 NM	pencil beam to a maximum range of 60 NM	pencil beam effective from zero to 150 NM	fan shaped beam effective up to a maximum of 50 NM to 60 NM range		0	0	0	1
		Which of the following cloud types is most readily detected	altostratus	cumulus	cirrocumulus	stratus					
4719	62	by airborne weather radar when using the 'weather beam'?						0	1	0	0
		Why is a secondary radar display screen free of storm clutter?	A moving target indicator facility suppresses the display of static or near static retums	The frequencies employed are too low to give returns from moisture sources	The principle of 'echo' retum is not used in secondary radar	The frequencies employed are too high to give returns from moisture sources					
4720	62		70.00		70.00	75.00		0	0	1	0
4721	62	should be selected to code:	7600	7700	70 00	7500		1	0	0	0
4722	62	In order to indicate unlawful interference with the planned operation of the flight, the aircraft Secondary Surveillance Radar (SSR) transponder should be selected to:	7700	7000	7500	7600		0	0	1	0
4723	62	At what approximate height above the WGS-84 ellipsoid are NAVSTAR/GPS satellites circling the earth?	36000 km	19500 km	20200 km	10900 km		0	0	1	0
		The time taken for the transmission of an interrogation pulse by a Distance Measuring Equipment (DME) to travel to the ground transponder and return to the airborne receiver was 2000 micro-second. The slant range from the ground transponder was:	186 NM	296 NM	330 NM	165 NM					
4724	62	The state lange from the ground transported was.						0	0	0	1
		An Omni-bearing selector (OBS) shows full deflection to the left when within range of a serviceable VOR.	10° or more	less than 10°	1.5° or more	2.5 or more					
4725	62	What angular deviation are you from the selected radial?						1	0	0	0
25		Every 10 kt decrease in groundspeed, on a 3° ILS glidepath, will require an approximate:	decrease in the aircraft's rate of descent of	increase in the aircraft's rate of descent of	decrease in the aircraft's rate of descent of	increase in the aircraft's rate of descent of					
4726	62		100 FT/MIN	100 FT/MIN	50 FT/MIN	50 FT/MIN		0	0	1	0
		In which frequency bands are the L1 and L2 frequencies used by the satellite navigation system NAVSTAR/GPS for transmission of the navigation message?	UHF	VHF	EHF	SHF					
4727	62		1	1	I	I	Ī	lα	0	0	0

which of the following alternatives cometry described in the mine Persuth Random Nation (PRN) signal? Which of the following NAVSTARGES satellite navigation system and list of the satellites and list of the sa			In relation to the satellite navigation system NAVSTAR/GPS,	PRN is a	PRN is the	PRN	PRN occurs	П			
decided and process of the standard process of the s					1	I					
satellites and the measuremen sharp to the term of the measuremen sharp to the term of the			telli i seddo Namodii Noise (1704) signar:		l, ~	s	1				
### APP 10 Part					signals	electro-magn	I -				
AF728 ex					l	1	1				
A728 62 Which of the following NAVSTARKSPS satellite making in the special signal to reach the receiver					1 1	1 *	1				
4728 62 4728 62 4728 62 4728 62 4728 62 4728 62 4730 62 473					Sateriles	1	ı ~				
4728 62 Which of the following NAVSTARGPS satellite navigation system observed in the exceiver of the satellite available of the satellite of the color of the colo				taken by the		space	from				
Part							I				
Which of the following NAVSTARKSPS setellite navigation system codes can be processed by unauthorised 'divil'							1				
Which of the following NAVSTAR/GPS satellite navigation system NAVSTAR/GPS satellite ravigation system navigation system navigatio	4728	62		receiver			1, .	$ _{\scriptscriptstyle 1} $	0	0	0
system codes can be processed by unauthorised lovid Almanac data stored in the receiver of the satellite avigation system NAVSTAR/GPS is used for the: Almanac data stored in the receiver of the satellite avigation system NAVSTAR/GPS is used for the: Almanac data stored in the receiver of the satellite avigation system NAVSTAR/GPS suesed for the: Almanac data stored in the receiver of the satellite avigation system NAVSTAR/GPS suesed for the: Almanac data stored in the receiver of signals is belongs to detects the signals are received and compared in the statellite and compared in the statellite and compared in the satellite	17 20		Which of the following NAV STAR/GPS satellite navigation	C/A- and P	P and Y	C/A	<u> </u>	H	Ť	_	Ť
Affigure 2 American data strond in the receiver of the satellite navigation system NAVSTAR/GPS is used for the: American data strond in the receiver analysis on system NAVSTAR/GPS is used for the: American data strond in the receiver analysis on satellite navigation system navigation as a control of the control of			, ,								
A730 62	4729	62						0	0	1	0
PRN-code Random Noise Cohe Random Rando				ı ~		1	ı ~				
A730 62 How does a NAVSTAR/GPS satelfte navigation system receiver recognise which of the received signals belongs to which satellite? How does a NAVSTAR/GPS satelfte navigation system receiver recognise which of the received signals belongs to which satellite? How does a NAVSTAR/GPS satelfte navigation system which satellite? The Doppler of the satellites and compared in the signals on a growth 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? Seconds Satellites Seconds Seco			navigation system NAVSTAN GFS is used for the.								
A730 62 How does a NAVSTAR/GPS satellite navigation system receiver receipme which of the received signals belongs to which satellite? The poppler detects the direction from which signals are received and compares this information with the calculated havgation Message transmitted by NAVSTAR/GPS satellites? The poppler detects the direction from which satellites with an analysis of the satellites with an analysis of the satellites with the calculated havgation Message transmitted by NAVSTAR/GPS satellites? The poppler detects the direction from which satellites with the calculated havgation Message transmitted by NAVSTAR/GPS satellites? The box for data frame) The poppler detects the direction from which satellites with an analysis of the satellites with an anal							1				
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AF730 62						satellites					
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detects the which satellite? ### Arrantal time; calculated positions of the satellites ### Arrantal time; calculated positions of the satellites ### Arrantal time; calculated positions of the satellites? ### Arrantal time; calculated positions of the satellites status information the satellites? ### Arrantal time; calculated positions of the satellites status information the satellites? ### Arrantal time; calculated positions of the satellites status information the satellites status information the satellites? ### Arrantal time; calculated positions of the satellites status information the satellites status information the satellites? ### Arrantal time; calculated positions of the satellites status information the s			How does a NAVSTAR/GPS satellite navigation system	The receiver	Each satellite	Each satellite	The Doppler	H			Н
from which the signals are received and compares this information with the calculated positions of the satellites 4731 62 Which of the following data, in addition to the Pseudo Random Individual Pseudom Individual Pseudo Random Individual Pseudom I				detects the	transmits its	transmits its					
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ADF bearings by an aeroplane by day within the published protection range should be accurate to within a maximum error of: ADF bearings by an aeroplane by day within the published protection range should be accurate to within a maximum error of: The maximum theoretical range at which an aircraft at FL80 can obtain bearings from a ground VDF facility sited 325 FT ADF bearings by an aeroplane by day within the published +/-10° +/-2.5° +/-2° +/-5° The maximum theoretical range at which an aircraft at FL80 can obtain bearings from a ground VDF facility sited 325 FT			How does the Electronic Flight Instrument System display of a B737-400 respond to the failure of a VHF navigation (VOR) receiver?	The pointer rotates around the	The deviation bar and/or pointer	The pointer flashes and a VOR 1 or	It removes the associated				
Which component of the B737-MOB Description Flight Flight Corror Mardgaden Symbol Management A737 C2 In which havingston system does the master station transmit Computer In which havingston system does the master station transmit Computer In which havingston system does the master station transmit Computer In which having of pulses on a fine gency close to 100 A1738 C2 A and ENST In order to ensure accurate trace, duston with the airway limits the maximum distance apart for the transmitter is a fact should the transmitter to ensure accurate trace, duston with the airway limits the maximum distance apart for the transmitter is a fact should the transmitter power be nonessed in order to achieve an operational range of C9 NMF. Shall way port or Phentom Station into a basic VOR/DME-based Area Navigation System? VoR/DME-based Area Navigation				a VOR 1 or 2 failure warning bar	colour to red and flash	warning bar	deviation bar and/or pointer from				
Institutement System generates the visual displays on the EAT AT 20 et AD and EHSI? In which manigration system does the master station transmit a continuous string of pulses on a frequency close to 100 etc. AT 30 etc. An array 10 NM wide is to be defined by two VORs and having accuracy of but so minus 50°. In order to ensure accurate track guidence within the airway into the mastern additional and a continuous string of pulses on a frequency close to 100 etc. An array 10 NM wide is to be defined by two VORs and having accuracy of but so minus 50°. In order to ensure accurate track guidence within the airway into the mastern additional accuracy of but so minus 50°. In order to ensure accurate track guidence within the airway into the mastern and the mastern and the tracking of 20 NM. A made became accurate track guidence within the airway into the mastern and the mastern and the sure of the transmitter is approximately. In order to ensure accurate track guidence within the airway into the mastern and the mastern and the tracking of 20 NM. A made became accurate track guidence within the airway into a basic VOROME-based Area Navigation System? A made became accurate track guidence within the airway into a basic VOROME-based Area Navigation System? A made became accurate track guidence within the airway into a basic VOROME-based Area Navigation System? A made became accurate track guidence within the airway into a basic VOROME-based Area Navigation System? A made became accurate track guidence within the airway into a basic VOROME-based Area Navigation System? A made became accurate track guidence within the airway into a basic VOROME-based Area Navigation System? A made became accurate track guidence within the airway into a basic VOROME-based Area Navigation System? A made became accurate track guidence within the airway into a basic voron and a maniferate accurate the waypoint or promotion and allower stitutes are maximum when the NDB is: Transmissions from NDB transmissions, is due to contain t	4736	62						0	0	0	1
In which needings on system does the master staking haraminit a community of pulses on a frequency close to 100 delete? A and arisway 10 NM wide is to be defined by two VORs each having a result and bearing accuracy of plus or minus 5.5°. In order to ensure accurate track guidance within the airway limits the maximum dictance spart for the transmitter's approximately. A radio beacon has an operational range of 10 NM. By what sacks should the transmitter power be increased in order to accurate the state of the transmitter power be increased in order to accurate the state of the transmitter power be increased in order to accurate the support of approximately. Which of the following lists information required to input a wayport or Promotion Station into a basic VORDME-based Area Navigation System? Which of the following lists information required to input a wayport or Promotion Station and Area Navigation System? Transmissions from VOR facilities may be adversely affected by: Transmissions from VOR facilities may be adversely affected by: Transmissions from VOR facilities may be adversely affected by: Transmissions from VOR facilities may be adversely affected by: Transmissions from VOR facilities may be adversely affected by: The principle used in VOR bearing measurement is: The principle used in VOR b	4737	62	Instrument System generates the visual displays on the		1 -	l *	Management	0	0	1	0
An airway 10 MM wide is to be defined by two VORs each having a result and bearing accurator of plus or minus 5.5". In order to ensure accurate track put and order to ensure accurate track put and order to ensure accurate track put and order to achieve an operational range of 10 NM. By what so both of the transmitter ower be increased in order to achieve an operational range of 20 NM? An adio beacon has an operational range of 10 NM. By what so both of the transmitter ower be increased in order to achieve an operational range of 20 NM? Are Narigation System? Which of the following lists of demands on equited to laput a waypoint or Phontom Station in a besic VOR/DME-based Area Narigation System? Transmissibres from VOR facilities may be adversely affected by: Transmissibres from VOR facilities may be adversely at location of Phantom Station over irrogular ground gradients are located by: Which if requency band is used by VOR transmissions? Which is the minimum number of statellites required by a GPS in order to obtain a three dimensional first or suggestion and and the bearing accusts and the bearing accusts and the bearing crosses the organization and the bearing resistant and the bearing accusts and the bearing accusts and the bearing crosses the organization and the production of the required by an acroption by day within the published protection range should be accurate to within a maximum at data and dusk. APF bearings by an acroption by day within the published protection range should be accurate to within a maximum and dusk. APF bearings by an acroption by day within the published protection range should be accurate to within a maximum and dusk and dusk whole accurate to within a maximum and dusk and by the protection range at which an accurate at ELBO accurate the protection range should be accurate to within a maximum and cannot be cannot be cannot be organized to the protection range at which an accurate at ELBO accurate the protection range at which an accurate at ELBO accurate the protectio			a continuous string of pulses on a frequency close to 100	Doppler	Loran C	GPS	Decca				
Second Company Seco			An airway 10 NM wide is to be defined by two VORs each	165 NM	210 NM	105 NM	50 NM				
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4742 62 Which frequency band is used by VOR transmissions? The principle used in VOR bearing measurement is: Errors caused by the effect of coastal refraction on bearings at lower altitudes are maximum when the NDB is: What is the minimum number of satellites required by a GPS in order to obtain a three dimensional fix? What is the minimum number of satellites required by a GPS in order to obtain a three dimensional fix? What is the minimum number of satellites required by a GPS in order to obtain a three dimensional fix? A746 62 What is the minimum number of satellites required by a GPS in order to obtain a three dimensional fix? A746 62 A747 62 A748 62 A749 62 A74			waypoint or 'Phantom Station' into a basic VOR/DME-based	track and distance from the aircraft to the waypoint or 'Phantom	track and distance to a VOR/DME from the waypoint or 'Phantom	a minimum of two VORs to the waypoint or 'Phantom	distance from a VOR/DME to the waypoint or 'Phantom				
affected by: affected affected by: affected bara affected by: affected by: affected bara affected bara affe	4741	62		Station	Station		Station	0	0	0	1
Which frequency band is used by VOR transmissions? VHF UHF SHF HF 1 0				l ·	propagation over irregular ground		night effect				
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### AT44 62 Errors caused by the effect of coastal refraction on bearings at lower altitudes are maximum when the NDB is: From caused by the effect of coastal refraction on bearings at lower altitudes are maximum when the NDB is: From caused by the effect of coastal refraction on bearings at lower altitudes are maximum when the NDB is: From caused by the effect of coastal refraction on bearings or cosses the coast and the bearing crosses the coast at an acute angle or cosses the coast and the bearing coast at an acute angle or cosses the coast and the bearing coast at an acute angle or cosses the coast and the bearing oreasses the coast and the bearing or cosses the coast and the bear	4743	62	The principle used is VOD bearing massurement in	an valan a	ho ot	diff arongo in	nh ann	1	0	0	0
Errors caused by the effect of coastal refraction on bearings at lower altitudes are maximum when the NDB is: From the coast are maximum when the NDB is: Inland and the bearing crosses the coast at right angles Inland and the bearing crosses the coast at right angles Inland and the bearing crosses the coast at right angles Inland and the bearing crosses the coast at an acute angle Inland and the bearing coast at an acute angle Inland and the	4744	62	The principle used in VOR bearing measurement is:		frequency discriminatio	depth of	l'	0	0	0	
What is the minimum number of satellites required by a GPS in order to obtain a three dimensional fix? Vight Effect' which causes loss of signal and fading, resulting in bearing errors from NDB transmissions, is due to: Vight Effect' which causes loss of signal and fading, resulting in bearing errors from NDB transmissions, is due to: Vight Effect' which causes loss of signal and fading, resulting in bearing errors from NDB transmissions, is due to: Vight Effect' which causes loss of signal and fading, resulting in bearing errors from NDB transmissions, is due increasing at night particularly in the lower frequency band Vight Effect' which causes loss of signal and fading, resulting in bearing errors from NDB transmissions, is due increasing at night particularly in the lower frequency band Vight Effect' which causes loss of signal and fading, resulting in bearing errors from NDB transmissions, is due increasing at night particularly in the ower frequency band Vight Effect' which causes loss of signal and fading, resulting in the effect of the Aurora Borealis in aximum at davan and dusk when east of the NDB Vight Effect' which causes loss of signal and fading, resulting in the effect of the Aurora Borealis in aximum at davan and dusk when east of the NDB Vight Effect' which causes loss of signal and fading, resulting in the effect of the Aurora Borealis in aximum at davan and dusk when east of the NDB Vight Effect' which causes loss of signal and fading, resulting in the effect of the Aurora Borealis in the effect of the Aurora Borealis in the effect of the Aurora Borealis in aximum at davan and dusk when east of the NDB Vight Effect' which causes loss of signal and fading, resulting in the effect of the Aurora Borealis in the Aurora Borealis in the effect of the Aurora Borealis in the effect of the Aurora Borealis in the effect of the Aurora Borealis in the Aurora Borealis in the Aurora Borealis in the effect of the Aurora Borealis in the effect of the Aurora Borealis in the Aurora Borealis in the e				the bearing crosses the coast at right	near the coast and the bearing crosses the coast at an	the bearing crosses the coast at an	coast and the bearing crosses the coast at right				
'Night Effect' which causes loss of signal and fading, resulting in bearing errors from NDB transmissions, is due to: 1			• • •	6	4	3	5				
ADF bearings by an aeroplane by day within the published protection range should be accurate to within a maximum 4748 62 error of: The maximum theoretical range at which an aircraft at FL80 can obtain bearings from a ground VDF facility sited 325 FT ADF bearings by an aeroplane by day within the published +/-10° +/-2.5° +/-2° +/-5° The maximum theoretical range at which an aircraft at FL80 can obtain bearings from a ground VDF facility sited 325 FT			resulting in bearing errors from NDB transmissions, is due	increasing at night particularly in the lower frequency	the Aurora	distortion of the null position and is maximum at dawn and	from other transmission s and is maximum at dusk when east of the			1	
The maximum theoretical range at which an aircraft at FL80			protection range should be accurate to within a maximum	+/-10°	+/-2.5°	+/-2°	+/-5°				П
4749 62 above MSL is: 0 0			The maximum theoretical range at which an aircraft at FL80 can obtain bearings from a ground VDF facility sited 325 FT	107 NM	114 NM	134 NM	158 NM				

		What is the approximate maximum theoretical range at which an aircraft at FL130 could receive information from a	150 NM	180 NM	220 NM	120 NM					
47.50		VDF facility which is sited 1024 FT above MSL?							,		
4750	62	Which of the following types of radar systems are most	primary	centimetric	millimetric	secondary		0	1	0	0
		suited for short range operation?	continuous	pulse	pulse	continuous			_		
4751	62	The prime factor in determining the maximum unambiguous	wave pulse	power output	size of	wave height of the		1	0	0	0
		range of a primary radar is the:	recurrence	power output	parabolic	transmitter					
			rate		receiver aerial	above the					
4752	62				aeliai	ground		1	0	0	0
		For any given circumstances, in order to double the effective	16	2	4	8					П
4753	62	range of a primary radar the power output must be increased by a factor of:						1	0	0	0
		An aircraft is 100 NM from a VOR facility. Assuming no error	1.5	3.0	4.5	6.0					П
		when using a deviation indicator where 1 dot = 2° deviation, how many dots deviation from the centre line of the									
		instrument will represent the limits of the airway boundary?									
		(Assume that the airway is 10 NM wide)									
4754	62							1	0	0	0
		Quadrantal errors associated with aircraft Automatic Direction Finding (ADF) equipment are caused by:	misalignment of the loop	skywave/grou ndwave	signal bending by	signal bending					
		bliection i maing (ADI) equipment are caused by.	aerial	contaminatio	the aircraft	caused by					
				n	metallic surfaces	ele ctrical interference					
					Suriaces	from aircraft					
1755	62					wiring		١	0		
4755	02	The selection of code 7600 on an aircraft SSR transponder	an	unlawful	transponder	radio			U	<u> </u>	Н
		indicates:	emergency	interference	malfunction	communicati					
				with the planned		on failure					
				operation of					_		
4756	62	Instrument Landing Systems (ILS) Glide Paths provide	(i) 8 (ii)	the flight (i) 25	(i) 35	(i) 5 (ii)		0	0	0	
		azimuth coverage (i)° each side of the localiser	10	(ii) 17	(ii) 25	8					
4757	62	centre-line to a distance of (ii) NM from the threshold.						1	0	0	0
77.07		The rate of descent required to maintain a 3.25° glide slope	670 FT/MIN	700 FT/MIN	800 FT/MIN	850 FT/MIN		Ė	_	Ť	H
4758	62	at a groundspeed of 140 kt is approximately:						١,	0	1	
47.50	02	The pencil shaped beam of an airborne weatherradar is	beyond 100	beyond 150	when	beyond 50 to		ľ		Ė	H
		used in preference to the mapping mode for the	NM because	NM because	approaching	60 NM					
		determination of ground features:	insufficient antenna tilt	the wider beam gives	coast-lines in polar regions	because more power					
			angle is	better		can be					
			available with the	definition		concentrated in the					
			mapping			narrower					
4759	62		mode			beam		0	0	0	1
55		Factors liable to affect most NDB/ADF system performance	static	height error -	coastal	static		T			П
		and reliability include:	interference - station	station interference	refraction - lane slip -	interference - night effect					
			interference	- mountain	mountain .	- absence of					
			- latitude	effect	ef fect	failure					
			error			warning system					
4760	62	An aircraft is flying on a heading of 270°(M). The VOR OBS	NE	NW	sw	SE		0	0	0	1
		is also set to 270° with the full left deflection and FROM flag	INE	11444	J 3 V V	JOE					
		displayed.									
4761	62	In which sector is the aircraft from the VOR ground station?		<u></u>			<u> </u>	0	1	0	0
		In order to enter a waypoint that is designated by a VOR into	do es not	must be in	has to be	do es not					П
		an RNAV, the VOR:	have to be in range when	range	positively identified by	have to be in range when					
			entered or		one of the	entered but					
			used		pilots	must be when used					
4762	62			<u> </u>				0	0	0	1

		The two signals transmitted by a conventional VOR ground	south	west	north	east				Ħ
4763	62	station are 90° out of phase on magnetic:					0	0	0	1
4764	62	Outer marker transmits on 75 MHz and has an aural frequency of:	400 Hz	1300 Hz	2000 Hz	3000 Hz	1	0	0	0
4765	62	Assuming a five dot display, what does each of the dots on either side of the ILS localizer cockpit display represent:	2.0 degrees	0.5 degrees	1.5 degrees	2.5 degrees	0	1	0	0
4766	62	Which of the following is likely to have the greatest effect on ADF accuracy?	Interference from other NDBs, particularly at night	Frequency drift at the ground station	Interference from other NDBs, particularly during the day	Mutual interference between aircraft aerials	1	0	0	
4767	62	In which frequency band does an ILS glide slope transmit?	SHF	EHF	UHF	VHF	0		1	П
	62	What is the wavelength of an NDB transmitting on 375 kHZ?	80 m	800 m	8000 m	8 m	0		0	П
4769	62	An apparent increase in the transmitted frequency which is proportional to the transmitter velocity will occur when:	both transmitter and receiver move towards each other	the transmitter moves towards the receiver	the transmitter moves away from the receiver	the receiver moves towards the transmitter		1	0	
4770	62	The selection of code 7500 on an aircraft SSR transponder indicates:	unlawful interference with the planned operation of	an emergency	transponder malfunction	radio communicati on failure			0	
4771	62	Which of the following will give the most accurate calculation of aircraft ground speed?	the flight A VOR station sited on the flight route	A DME station sited across the flight route	A DME station sited on the flight route	An ADF sited on the flight route			1	
4772	62	The selection of code 7700 on an aircraft SSR transponder indicates:	an emergency	radio communicati on failure	transponder malfunction	unlawful interference with the planned operation of the flight			0	
	62	In a primary radar using pulse technique, pulse length determines:	target discriminatio n	maximum measurable range	beam width	minimum measurable range			0	
4774	62	In a primary radar using pulse technique, pulse recurrence frequency (PRF)/pulse recurrence rate (PRR) determines:	minimum range	beam width	maximum theoretical range	target discriminatio n	0	0	1	0
4775	62	In a primary radar using pulse technique, the ability to discriminate between targets in azimuth is a factor of:	pulse length	beam width	aerial rotation rate	Pulse Recurrence Rate (PRR)	0	1	0	0
		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:	713 pps	1620 pps	3240 pps	61 0 pps				
4776	62	(pps = pulses per second) A VOR is sited at position A (45°00'N, 010°00'E). An aircraft is located at position B (44°00'N, 010°00'E). Assuming that the magnetic variation at A is 10°W and at B is 15°W, the aircraft is on VOR radial:	185°	180°	190°	195°			0	
4777	62	A DME station is located 1000 feet above MSL.	17 NM	16 NM	14 NM	15 NM	0	0	1	0
4778	62	An aircraft flying at FL 370, 15 NM away from the DME What is the maximum distance between VOR and	600 m	2000 m	60 m	300 m	0	1	0	0
4779	62	DME/TACAN ground installations if they are to have the same morse code identifier?	300111	2000 111	50 III	300111	1	0	0	0
4700	000	Ignoring pulse length and fly-back, a radar facility designed to have a maximum unambiguous range of 50 km will have	330	30 00	60 00	167			_	
4780	62	a PRF (pulses per second) of:	l		l	1	0	1	0	U

	Which combination of characteristics gives best screen picture in a primary search radar?	long pulse length and	short pulse length and	short pulse length and	long pulse length and					
62		narrowbeam	wide beam	narrowbeam	wide beam		0	0	1	0
	An aircraft carrying out an ILS approach is receiving more 90 Hz than 150 Hz modulation notes from both the localiser and glidepath transmitters. The ILS indication will show:	Fly left and fly up	Fly right and fly down	Fly left and fly down	Fly right and fly up					
	The maximum theoretical range at which an aircraft at FL210 may receive signals from a VOR facility sited 340 feet above mean sea level is approximately:	204 NM	245 NM	163 NM	183 NM					
02	Which of the following radar equipments operate by means of the pulse technique?	1, 2, 3 and 4	1, 2 and 4 only	2, 3 and 4 only	2 and 4 only			0	<u> </u>	
62			ala.a		mb		1	0	0	0
62	A Primary radar operates on the principle of:	wave transmission	technique	interrogation	comparison			1	0	
62	The geometric shape of the reference system for the satellite navigation system NAVSTAR/GPS, defined as WGS 84, is:	a geoid	an ellipsoid	a mathematical model that describes the exact shape of the earth	a sphere					
	(For this question use annex 062-12409A)	11 NM	12 NM	21 NM	10 NM		Ť		_	Ť
62	Which of the distances indicated will be shown on a basic VOR/DME-based Area Navigation Equipment when using a						0	1	0	0
62	(For this question use annex 062-12410A) Which of the distances indicated will be shown on a basic VOR/DME-based Area Navigation Equipment when using a 'Phantom Station' at position 'X'?	11 NM	14 NM	8 NM	9 NM		0	0	0	1
62	Erratic indications may be experienced when flying towards a basic VOR/DME-based Area Navigation System 'Phantom Station':	because, under adverse conditions (relative bearing to the Phantom Station other than 180°/360°) it takes the computer more time to calculate the necessary information	when in the cone of silence overhead the Phantom Station	when the Phantom Station is out of range	when operating at low altitudes close to the limit of reception range from the reference station		0	0	0	1
02	What is the deviation per dot on the HSI when using a 2-dot	5 NM	1 NM	2 NM	10 NM				J	H
62	basic RNAV system in the en-route mode?						1	0	0	0
62	What is the deviation per dot on the HSI when using an 2-dot RNAV system in the approach mode?	10 NM	0.5°	10°	0.5 NM		0	1	0	0
	62 62 62 62	picture in a primary search radar? An aircraft carrying out an ILS approach is receiving more 90 Hz than 150 Hz modulation notes from both the localiser and glidepath transmitters. The ILS indication will show: The maximum theoretical range at which an aircraft at FL210 may receive signals from a VOR facility sited 340 feet above mean seal level is approximately: Which of the following radar equipments operate by means of the pulse technique? 1. Aerodrome Surface Movement Radar 2. Airborne Weather Radar A Primary radar operates on the principle of: The geometric shape of the reference system for the satellite navigation system NAVSTAR/GPS, defined as WGS 84, is: (For this question use annex 062-12409A) Which of the distances indicated will be shown on a basic VOR/DME-based Area Navigation Equipment when using a 'Phantom Station' at position 'X'? Erratic indications may be experienced when flying towards a basic VOR/DME-based Area Navigation System 'Phantom Station': Phantom Station': What is the deviation per dot on the HSI when using a 2-dot basic RNAV system in the en-route mode? What is the deviation per dot on the HSI when using an 2-dot RNAV system in the approach mode?	picture in a primary search radar? length and narrow beam An aircraft carrying out an ILS approach is receiving more 90 Hz than 150 Hz modulation notes from both the localiser and glidepath transmitters. The ILS indication will show: The maximum theoretical range at which an aircraft at F1210 may receive signals from a VOR facility sited 340 feet above mean sea level is approximately: Which of the following radar equipments operate by means of the pulse technique? 1. Aerodrome Surface Movement Radar 2. Airborne Weather Radar A Primary radar operates on the principle of: wave transmission The geometric shape of the reference system for the satellite navigation system NAVSTAR/GPS, defined as WGS 84, is: (For this question use annex 062-12409A) Which of the distances indicated will be shown on a basic VOR/DME-based Area Navigation Equipment when using a Phantom Station' at position 'X'? Erratic indications may be experienced when flying towards a basic VOR/DME-based Area Navigation System Phantom Station' at position 'X'? Erratic indications may be experienced when flying towards a basic VOR/DME-based Area Navigation System Phantom Station' at position 'X'? Britation Station' at position 'X'? Erratic indications may be experienced when flying towards a basic VOR/DME-based Area Navigation System Phantom Station' in the Phantom Station' states the computer more time to calculate the necessary information Britation of the distances of the the HSI when using a 2-dot RNAV system in the en-route mode? What is the deviation per dot on the HSI when using an 2-dot RNAV system in the approach mode? What is the deviation per dot on the HSI when using an 2-dot RNAV system in the approach mode?	picture in a primary search radar? length and narrowbeam length and narrowbeam length and narrowbeam length and wide beam length and wide beam length and wide beam length and length	picture in a primary search radar? An aircraft carrying out an ILS approach is receiving more 30 Hz than 150 Hz modulation notes from both the localiser and glidepath transmitters. The ILS indication will show: Experimental theoretical range at which an aircraft at FL210 may receive signate from a VOR facility sited 340 feet above mean seal level is approximately: Which of the following radar equipments operate by means of the pulse technique? 1. Aerodrome Surface Movement Radar 2. Airborne Weather Radar 2. Airborne Weather Radar 3. Primary radar operates on the principle of: Wisch and the vigation system NAVSTAR/GPS, defined as WGS 34, is: (For this question use annex 082-12409A) Which of the distances indicated will be shown on a basic VORDME-based Area Navigation Equipment when using a VORDME-based Area Navigation Equipment when using a Phantom Station it position. Y? Erradic indications may be experienced when flying towards a basic VORDME-based Area Navigation System Phantom Station is position. Y? Erradic indications may be experienced when flying towards a basic VORDME-based Area Navigation System (Relixing 1807/3807) it takes the computer more time to calculate the necessary information. Which of the distances indicated will be shown on a basic VORDME-based Area Navigation Equipment when using a Phantom Station it position. Y? Erradic indications may be experienced when flying towards a basic VORDME-based Area Navigation System (Relixing 1807/3807) it takes the computer more time to calculate the necessary information in the Phantom Station is the deviation per dot on the HSI when using a 2-dot RNAV system in the erroute mode? What is the deviation per dot on the HSI when using a 2-dot RNAV system in the expression of the Phantom Station of the Phantom Station and the Phantom	elegth and and record carrying out an ILS approach is receiving more on the time of time of time of time of the time of the time of the time of time	Dicture in a primary search radar? International processing the processing of th	picture in a primary search radar? An aircraft carrying out an ILS approach is receiving more SO Hz than 150 Hz modulation notes from both the localiser and glidpohal transmitters. The ILS indication will share a search of the properties of the properties of the properties of the pulse feel holder of the pulse feel holder on an aircraft at F120 may receive signals from a VOR facility sided 340 feet above men sea level is approximately: Which of the following radar equipments operate by means of the pulse feethhilder. Which of the following radar equipments operate by means of the pulse feethhilder. A Primary radar operates on the principle of: Which of the following radar equipments operate by means of the pulse feethhilder. A Primary radar operates on the principle of: WSS 84, is: The geometric shape of the reference system for the satellite navigation system NAVSTANGPS, defined as WGS 84, is: (For this question use armex 062-12409A) Which of the distances indicated will be shown on a basic work of the distances indicated will be shown on a basic relation of the distances indicated will be shown on a basic relation of the distances indicated will be shown on a basic relation. WORDME-based Area Navigation System Phantom Station': Phantom Station': Which of the distances indicated will be shown on a basic relation of page and the phantom is conditions. Station other than a station of a position XY2 is takes the companion of the phantom is conditions. Which is the deviation period on the HSI when using a 2-dot basic NAV system in the exposure mode mode? What is the deviation period on the HSI when using an 2-dot Station of the thing the deviation period on the HSI when using an 2-dot RNAV system in the exposure mode of the computer of the period on the HSI when using an 2-dot RNAV system in the exposure mode of the computer of the period on the HSI when using an 2-dot RNAV system in the exposure mode?	picture in a primary search inder? Integration of Nation Ength and narrow beam Ength and narrow beam Nation N	picture in a primary search mode? An aircraft carrying out an LIS approach is receiving more of the United State of the Control of the Coaliser and glidgegth transmitters. The LIS indication will show: The maximum becordical range at which an aircraft at FL20 may receive signate from a VOR facility sited 340 (etc.) and of the Coaliser and glidgegth transmitters. The LIS indication will show: Which of the following radar apprents operate by means of the pulse technique? 1. Aerodrome Surface Movement Radar 2. Airborna Weather Radar 2. Airborna Weather Radar 2. Airborna Weather Radar 3. A Primary radar operates on the principle of: WISS 84, is: (For this question use amnex 062-12409A) Which of the distances indicated will be shown on a basic VORDME-based Area Navigation System Station other Phontom Station: (For this question use amnex 062-12409A) Which of the distances indicated will be shown on a basic VORDME-based Area Navigation System Station other Phontom Station: WINDER Station: Which of the distances indicated will be shown on a basic vortex of the computer will be shown on a basic vortex of the c

4792	62	Which of the following is one of the functions of the Course-Line-Computer in a basic Area Navigation (RNAV) system?	ground station accuracy using a built-in test programme	It automatically selects the two strongest tra nsmitters for the Area-Nav-Mo de and continues working by memory in case one of the two necessary station goes off the air	It calculates cross track information for NDB approaches	It transfers the information given by a VOR/DME station into tracking and distance indications to any chosen Phantom Station/wayp oint	0	0	0	1
4793	62	Which of the following combinations of satellite navigation systems provide the most accurate position fixes in air navigation?	NAVSTAR/G PS and GLONASS	NAVSTAR/G PS and NNSS-Transi t	NNSS-Transit and GLONASS	GLONASS and COSPAS-SA RSAT	1	0	0	0
4794	62	The required 24 NAVSTAR/GPS operational satellites are located on:	4 orbital planes with 6 sate lites in each plane	6 orbital planes with 3 sate lites in each plane plus 6 reserve sat ellites positioned in a geostation ary orbital plane	6 orbital planes with 4 sate lites in each plane	3 orbital planes with 8 sate llites in each plane	0	0	1	0
4705		Which of the following statements about the 'visibility' of NAVSTAR/GPS satellites is correct?	It is greatest at the equator	It is greatest at the poles	It varies, depending on the time and observer's	It is the same throughout the globe				
4795 4796	62	How many operational satellites are required for Full Operational Capability (FOC) of the satellite navigation system NAVSTAR/GPS?	18	12	location 30	24				1
4797	62	Which of the following satellite navigation systems has Full Operational Capability (FOC) and is approved for specified flights under IFR conditions in Europe?	NAVSTAR/G PS	NNSS-Transit	COSPAS-SA RSAT	GLONASS				0
4798	62	The basic elements of the satellite navigation system NAVSTAR/GPS are the:	control, space and user segments	main control station, the monitoring station and the ground antennas	antenna, the receiver and the central control unit (CDU)	atomic clock, power supply and transponder	1	0	0	0
	62	One of the tasks of the control segment of the satellite navigation system NAVSTAR/GPS is to:	manipulate the signals of selected satellites to reduce the precision of the position	grant and monitor user authorisations	monitor the status of the sat ellites	manufacture and la unch the sa tellites				0
47 99	02	An aircraft carrying out a 3° glidepath ILS approach experiences a reduction in groundspeed from 150 kt at the outer marker to 120 kt over the threshold. The effect of this change in groundspeed on the aircraft's rate of descent will be a decrease of approximately:	fix 250 FT/MIN	50 FT/MIN	100 FT/MIN	150 FT/MIN				
4800	62	во а солосо от аррголитаюту.					0	0	0	1

		Where, in relation to the runway, is the ILS localiser	At the	At the	On the	At the				7	
		transmitting aerial normally situated?	non-approac	ap proa ch	non-approac	ap proa ch				-	
			h end about	end about	h end of the	end of the				-	
			150 m to	150 m to	runway	runway				-	
			one side of	one side of	about 300 m	about 300 m				-	
			the runway and 300 m	the runway and 300 m	from the runway on	from to uchdown				-	
			along the	from	the	on the				-	
			extended	touchdown	extended cen	centreline				-	
4801	62		centreline		treline			0	0	1	0
		The database of an FMS (Flight Management System) is	only read the	can modify	read and	insert				T	
		organised in such a way that the pilot can:	database	the	write at any	navigation				-	
				database eve	time in	data				-	
				ry 28 days	database	be tween two				-	
4802	62					updates		١	0	٦١	, l
4002	02	Which one of the following statements is correct concerning	It is less	The	It eliminates	A smaller		۲	\dashv	┧	-
		the use in primary radar of continuous wave transmissions	effective in	equipment	the minimum	common				-	
		as compared with pulse transmissions?	short range	required is	target	transmitter				-	
			radars but	more	reception	and receiver				-	
			more	complex in	range	aerial can be				-	
			effective in	continuous		used				-	
			long range	wave radar						-	
			radars	but this is							
				offset by							
				greater						-	
				reliability						-	
4803	62			and a ccuracy				١	0	1	٦
4003	02	Due to 'Doppler' effect an apparent decrease in the	both	the	the	the		۲	H	┧	\dashv
		transmitted frequency, which is proportional to the	transmitter	transmitter	transmitter	transmitter				-	
		transmitter's velocity, will occur when:	and receiver	moves away	and receiver	moves				-	
		,	move away	from the	move	toward the				-	
			from each	reciever	towards each	reciever				-	
			ot her		other					-	
4804	62							0	1	0	0
		Signal reception is required from a minimum number of	4	5	6	7					
		satellites that have adequate elevation and suitable								-	
		geometry in order for a Satellite-Assisted Navigation								-	
		System (GNSS/GPS) to carry out independent three								-	
		dimensional operation, Receiver Autonomous Integrity								-	
		Monitoring (RAIM) and to isolate any faulty satellite and								-	
		remove it from contributing to the navigation solution. The number of satellites is:								-	
4805	62	Thurmber of saterites is.						0	0	1 I	٥١
1000		A ground radar transmitting at a PRF of 1200 pulses/se cond	27 NM	67 NM	135 NM	270 NM		Ť	Ť	┪	\dashv
		will have a maximum unambiguous range of approximately:	27 14101	O' I'III	liooiviii	2701111				-	
4806	62	The real of the series of the						0	1	o	0
		The main task of the user segment (receiver) of the satellite	monitor the	select	transmit	to monitor		Г	\Box	┪	7
		navigation system NAVSTAR/GPS is to:	orbital	appropriate	signals	the status of				-	
			planes of the	satellites	which, from	the				-	
			satellites	automatically	the time	satellites, det				-	
				, to track the	taken, are	ermine their				-	
				signals and	usedto	positions					
				to measure	determine	and to				-	
				the time	the distance	measure the				-	
				taken by	to the	time					
				signals from	sat ellite						
			I	the satellites to reach the							
					1	ı	I	ı		-1	
				1					ı		
				receiver							
4807	62			1				0	1	0	0
4807	62	Signal reception is required from a minimum number of	3	1	5	6		0	1	0	0
4807	62	Signal reception is required from a minimum number of satellites that have adequate elevation and suitable	3	receiver	5	6		0	1	0	0
4807	62		3	receiver	5	6		0	1	0	0
4807	62	satellites that have adequate elevation and suitable	3	receiver	5	6		0	1	0	0
4807	62	satellites that have adequate elevation and suitable geometry in order for a Satellite-Assisted Navigation System (GPS) to carry out independent three dimensional operation without the Receiver Autonomous Integrity	3	receiver	5	6		0	1	0	0
	62	satellites that have adequate elevation and suitable geometry in order for a Satellite-Assisted Navigation System (GPS) to carry out independent three dimensional	3	receiver	5	6			1		

		One of the tasks of the space segment of the satellite	transmit	transmit	compute the	monitor the				Ħ
		navigation system NAVSTAR/GPS is to:	signals which can be used, by suitable receivers, to determine time,	signals to suitable receivers and to monitor the orbital planes auton	user position from the received user messag es and to transmit the computed	sat ellites' orbits and status				
4809	62		position and velocity	omously	position back to the user segment		1	0		
	62 62	In which mode of operation does the aircraft weather radar use a cosecant radiation pattern.	MAPPING	CONTOUR	WEATHER	MANUAL			0	П
		There are two NDBs, one 20 NM inland, and the other 50 NM inland from the coast. Assuming that the error caused by coastal refraction is the same for both propagations, the extent of the error in a position line plotted by an aircraft that is over water will be:	the same from both beacons when the aircraft is on a relative bearing of 180° and 360°	greater from the beacon that is 20 NM inland	the same from both beacons when the aircraft is on a relative bearing of 090° and 270°	greater from the beacon that is 50 NM inland				
	62	How long does it take a NAVSTAR/GPS satellite to orbit the earth?	365 days because the sat ellites are located in a geostationary orbit	Approximatel y 12 hours (1/2 of a sidereal day)	ApproximateI y 24 hours (one side real day)	12 days			0	
	62	In relation to the satellite navigation system NAVSTAR/GPS, the term 'inclination' denotes the angle between the:	horizontal plane at the location of the receiver and the direct line to a satellite	orbital plane and the earth's axis	horizontal plane at the location of the receiver and the orbital plane of a satellite	orbital plane and the equatorial plane			0	
10.10		In civil aviation, the height value computed by the receiver of the satellite navigation system NAVSTAR/GPS is the:	geometric height above ground	height above Mean Sea Level (MSL)	flight level	height above the WGS-84 ellipsoid				
	62	The minimum range of a primary radar, using the pulse technique, is determined by the (i); the maximum unambiguous range by the (ii)	(i) pulse length (ii) length of the timebase	(i) transmission frequency (ii) pulse recurrence frequency	(i) pulse length (ii) pulse recurrence frequency	(i) transmission frequency (ii) transmitter power output			1	
		The principle of operation of an ILS localiser transmitter is based on two overlapping lobes that are transmitted on (i) frequencies and carry different (ii)	(i) the same (ii) modulation frequencies	(i) the same (ii) phases	(i) different (ii) modulation frequencies	(i) different (ii) phases				
10.10	62	Under JAR-25 colour code rules, features displayed in amber/yellow on an Electronic Flight Instrument System (EFIS), indicate:	engaged modes	cautions, abnormal sources	flight envelope and system	warnings			0	
4817	62	ILS is subject to false glide paths resulting from:	spurious signals reflected by nearby obstacles	back-scatterin g of antennas	ground returns ahead of the antennas	multiple lobes of radiation pattems in the vertical	U	1	0	U
4818	62		35040103			plane	0	0	0	1

		What approximate rate of descent is required in order to maintain a 3° glidepath at a groundspeed of 90 kt?	450 FT/MIN	400 FT/MIN	600 FT/MIN	700 FT/MIN				
4819	62						1	0	0	0
40.00	62	Which one of the following Secondary Surveillance Radar (SSR) codes should be used by aircraft entering airspace from an area where SSR operation has not been required?	50 00	7000	00 00	2000		0	0	1
	62	ICAO Annex 11 defines Area Navigation (RNAV) as a method of navigation which permits aircraft operation on any desired flight path:	within the coverage of station-refere nced navigation aids or within the limits of the capability of self-contained aids, or a combination of these	outside the coverage of station-refere nced navigation aids provided that it is equipped with a minimum of one serviceable self-contained navigation aid	within the coverage of station-refere nced navigation aids provided that it is equipped wit h a minimum of one serviceable self-containe d navigation aid	outside the coverage of station-refere nced navigation aids provided that it is equipped with a minimum of two serviceable self-contained navigation aids			0	
		Precision RNAV (P-RNAV) requires a track-keeping accuracy of:	1.0 NM standard deviation or	1.5 NM standard deviation or	0.5 NM standard deviation or	0.25 NM standard deviation or				
	62 62	Basic RNAV requires a track-keeping accuracy of:	+/- 5NM or better throughout the flight	+/- 5NM or better for 95% of the flight time	+/- 3NM or better for 90% of the flight time	+/- 2NM or better for 75% of the flight time			0	
4824	62	The Flight Management Computer (FMC) position is:	the same as that given on the No. 1 IRS	another source of aircaft position; it is independent of other position sources (IRS, Radio, ILS etc)	the computed po sition based on a number of sources (IRS, Radio, ILS, GPS etc)	the actual position of the aircraft at any point in time	0	0	1	0
4825	62	The track-line on the Electronic Horizontal Situation Indicator (EHSI) or Navigation Display of an Electronic Flight Instrument System:	indicates that the pilot has made a manual track selection	indicates to the pilot that a manually selected heading is being flown	represents the track of the aircraft over the ground. When it co-incides with the desired track, wind influence is compensated for	corresponds to the calculated IRS TH and is correct during tums		<u> </u>	1	
	62	In which of the following cases would ETOs and ETA at destination calculated by the Flight Management Computer (FMC) be correct?	When the FMC positions and GS are accurate	When the ETOs and ETA are based on the fore cast winds calculated from the actual take-off time	When the actual winds match the forecast winds, and the actual cruising Mach number is equal to the FMC calculated Mach number	When the FMC computes each ETO and ETA using the correct GS		0		
7020	<u> </u>	Which of the following coordinate systems is used by the	EUREF 92	WGS 84	ED 87	ED 50	Ť		H	Ť
4827	62	GPS receiver to determine position (Latitude, longitude and altitude)?					0	1	0	0

		The orbital planes of the satellite navigation system NAVSTAR/GPS are:	inclined 55° to the	inclined 55° to the earth	inclined 90° to the	parallel to the equatorial				
4828	62		equatorial plane	axis	equatorial plane	plane	1	0	0	0
4829	62	GPS satellites transmit on two L-band frequencies with different types of signals. Which of these are generally available for use by civil aviation?	L1-precise (P)	L2-for communicati ons purpose	L1-coarse acquisition (C/A) with selected availability (S/A)	L2-coarse acquisition (C/A)	0	0	1	0
4830	62	Under JAR-25 colour code rules, features displayed in green on an Electronic Flight Instrument System (EFIS), indicate:	cautions, abnormal sources	the earth	the ILS deviation pointer	engaged modes	0	0	0	1
4831	62	Under JAR-25 colour code rules features displayed in cyan/blue, on an Electronic Flight Instrument Systems (EFIS), indicate:	the sky	engaged modes	the flight director bar(s)	flight envelope and system limits	1	0	0	0
4832	62	Under JAR-25 colour code rules for Electronic Flight Instrument Systems (EFIS), current data and values are coloured:	white	cyan	red	magenta	1	0	0	0
4833	62	Under JAR-25 colour code rules for Electronic Flight Instrument Systems (EFIS), armed modes are coloured:	green	magenta	amber/yellow	white	0	0	0	1
4834	62	Under JAR-25 colour code rules for Electronic Flight Instrument Systems (EFIS), a selected heading is coloured:	white	yellow	magenta	green	0	0	1	0
4835	62	Loran C coverage is:	unrestricted between latitudes 70°N and 70°S	unrestricted over the oceans and adjacent coastlines but limited over the major continental land masses	confined to certain limited areas of the world	global			1	
4836	62	Assuming sufficient transmission power, the maximum range of a ground radar with a pulse repetition frequency of 450 pulses per second is: (Given: velocity of light is 300 000 km/second)	666 km	1333 km	150 km	333 km	0	0	0	1
		The ground Secondary Surveillance Radar (SSR) equipment incorporates a transmitter and receiver respectively operating in the following frequencies:	1090 MHz 1030 MHz	1090 MHz 1090 MHz	1030 MHz 1030 MHz	1030 MHz 1090 MHz				
4837	62	Transmitter Receiver					0	0	0	1
4838	62	When Mode C is selected on the aircraft SSR transponder the additional information transmitted is:	flight level based on 1013.25 hPa	altitude ba sed on regional QNH	aircraft height based on sub-scale setting	height based on QFE	1	0	0	0
		Under JAR-25 colour code rules, features displayed in red on an Electronic Flight Instrument System (EFIS), indicate:	warnings; cautions and abnormal sources	cautions and abnormal sources; engaged modes	warnings; flight envelope and system limits	flight envelope and system limits; engaged				
4839	62	In order to obtain an ADF bearing the:	sense aerial must be tuned separately	mode selector shou Id be switched to	BFO switch must be selected to 'ON'	modes signal must be received by both the sense and			1	
4840	62	What type of satellite navigation system NAVSTAR/GPS receiver is most suitable for use on board an aircraft?	Se quential	'loop' Multiplex	Any hand held type	loop aerials Multichannel			0	
4841	62	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Ů	U	0	

		The reason why the measured distance between a	calculated	calculated	measured	movement of					
		NAVSTAR/GPS satellite navigation system satellite and a	range is	range	distance is	satellite and					
		receiver is called a 'Pseudo-Range' is because the:	based on an idealised	includes receiver	based on the Pseudo	receiver during the				-	
			Keplerian	clock error	Random	distance				-	
			orbit		Noise code	calculation is				-	
						not taken into				-	
						account					
4842	62							0	1	٥	0
		In relation to the satellite navigation system NAVSTAR/GPS,	is receiving	is receiving	requires the	is tracking					
		'All in View' is a term used when a receiver:	the signals of all visible	and tracking the signals	signals of all visible	more than the required				-	
			satellites but	of all 24	satellites for	4 satellites				-	
			tracking only	op erational	navigation	and can				-	
			those of the	sat ellites	purposes	instantly				-	
			4 with the best	simultan eous ly		replace any lost signal				-	
			geometric	l'y		with another				-	
			coverage			already being				-	
						monito red					
4843	62							0	0	0	1
		The distance between a NAVSTAR/GPS satellite and receiver is:	calculated, using the	determined by the phase	determined by the time	calculated from the					
		1000170113.	WGS-84	shift of the	taken for the	Doppler shift					
			reference	Pseudo	signal to	of the known				-	
			system, from	Random	arrive from	frequencies				-	
			the known positions of	Noise code multiplied by	the satellite multiplied by					-	
			the satellite	the speed of	the speed of					-	
			and the	light	light					-	
1844 1844	62		receiver					0	0	1	0
		Concerning the NAVSTAR/GPS satellite navigation system,		It is a	It is a	It is the				1	1
		what is the meaning of the term 'Receiver Autonomous	whereby a	technique	technique by	ability of the				-	
		Integrity Monitoring' (RAIM)?	receiver ensures the	whereby the receivers of	which a receiver	GPS sat ellites to				-	
			integrity of	the	ensures the	check the				-	
			the Pseudo	world-wide	integrity of	integrity of				-	
			Random Noise (PRN)	distributed monitor	the navigation	the data transmitted				-	
			code	stations	information	by the				-	
			transmitted	(ground		monito ring				-	
			by the	segment)		stations of				-	
			satellites	automatically determines		the ground segment				-	
				the integrity		Sognion				-	
				of the						-	
				navigation						-	
				message							
4845	62							0	0	1	0
		Which of the following statements is correct concerning the principle behind the correction of one of the NAVSTAR/GPS	The effect of receiver	The effect of signal	The influence of shadowing	The path delay of the					
		satellite navigation system errors by the transmission of the	noise can be	reflections	on the GPS	signals in					
		signals on two frequencies (L1 and L2)?	reduced due	(mult ipath	signals is	the earth					
J			to the	effect) can	proportional	atmosphere					
			interference	be reduced	to the inverse of	is proportional					
				ldue to the			I				
			of both frequencies	due to the interference	the carrier	to the					
			of both	interference of both	the carrier frequency	inverse of					
			of both	interference	the carrier	inverse of the carrier					
4846	62		of both	interference of both	the carrier frequency	inverse of		0	0	0	1
1846	62	Which one of the following errors can be compensated for	of both	interference of both	the carrier frequency squared	inverse of the carrier frequency		0	0	0	1
	62	Which one of the following errors can be compensated for by a NAVSTAR/GPS receiver comparing L1 and L2 frequencies?	of both frequencies	interference of both frequencies	the carrier frequency squared	inverse of the carrier frequency squared		0			
		by a NAVSTAR/GPS receiver comparing L1 and L2	of both frequencies	interference of both frequencies Tropospheric	the carrier frequency squared	inverse of the carrier frequency squared					

		Ignoring pulse length, the maximum pulse repetition frequency	405 pps	782 pps	308 pps	375 pps				
		(PRF) that can be used by a primary radar facility to detect targets								
4849	62	unambiguousky to a range of 200 NM is-					1	0	0	0
		Which of the following lists all the parameters that can be determined by a GPS receiver tracking signals from 4 different satellites?	Latitude, longitude and time	Latitude, longitude and altitude	Latitude, longitude, altitude and	Latitude and Ion gitude				
4850	62				time		0	0	1	0
4851	62	ICAO specifications are that range errors indicated by Distance Measuring Equipment (DME) should not exceed:	+ or - 0.5 NM or 3% of the distance measured whichever is the greater	+ or - 1.25 NM plus 0.25% of the distance measured	+ or - 0.25 NM plus 3% of the distance measured up to a maximum of 5 NM	+ or - 0.25 NM plus 1.25% of the distance measured	0	0	0	1
1001	<u> </u>	Under JAR-25 colour code rules for Electronic Flight	cyan	magenta	green	yellow	Ť	Ť	Ť	H
4852	62	Instrument Systems (EFIS), the active route/flight plan is coloured:			3 **	,	0	1	0	0
		The advantage of the use of slotted antennas in modern radar technology is to:	simultan eousl y transmit weather and mapping beams	have a wide beam and as a consequence better target detection	eliminate the need for azimuth slaving	virtually eliminate lateral lobes and as a consequence concentrate more energy in the main beam				
4853	62						0	0	0	1
	62	MLS installations notified for operation, unless otherwise stated, provide azimuth coverage of:	+ or - 40° about the nominal courseline out to a range of 20 NM	+ or - 20° about the nominal courseline out to a range of 20 NM	+ or - 40° about the nominal courseline out to a range of 30 NM	+ or - 20° about the nominal courseline out to a range of 10 NM		0		
	62	Complete the following statement. Aircraft Surface movement Radar operates on frequencies in the (i) band employing an antenna that rotates at approximately (ii) revolutions per minute; it is (iii) possible to determine the type of aircraft from the return on the radar screen.	(i) SHF (ii) 60 (iii) sometimes	(i) EHF (ii) 30 (iii) never	(i) SHF (ii) 10 (iii) always	(i) EHF (ii) 100 (iii) never		0		
4000	02	The maximum range obtainable from an ATC Long Range	200 NM	100 NM	400 NM	300 NM	Ė	H	Ť	H
	62 62	Surveillance Radar is approximately: In Airborne Weather Radar (AWR), the main factors which determine whether a cloud will be detected are:	rotational speed of radar scanner; range from	size of the water drops; wavelength/fr equency used	range from cloud; wavelength/fr equency used	size of the water drops; diameter of radar scanner		1		
4031	02	In order to ascertain whether a cloud return on an Aircraft Weather Radar (AWR) is at or above the height of the	2.5° up	0°	2.5° down	5° up	U	1	J	
4858	62	aircaft, the tilt control should be set to: (Assume a beam width of 5°)					1	0	0	0
		Which of the following Secondary Surveillance Radar (SSR) codes is used to indicate transponder malfunction?	7600	4096	9999	00 00				
4859	62						0	0	0	1

		In a Satellite-Assisted Navigation System (GNSS/GPS), a fix	the aircraft's	measuring	measuring	measuring				П	T
		is obtained by:	receiver	the time	the pulse	the time					
			measuring the phase	taken for an aircraft's	lengths of	taken for a minimum					
			angle of	transmission	signals received	number of				Ιl	
			signals	s to travel to	from a	satellites'				Ιl	
			received	a number of	minimum	transmission				Ιl	
			from a	satellites, in	number of	s, in known				Ιl	
			number of	known	satellites	positions, to				Ιl	
			sat ellites in	positions,	received in a	reach the				ıl	
			known	and return to	specific	aircraft's				ıl	
			positions	the aircraft's	sequential	receiver				ıl	
				receiver	order						
4860	62							0	0	0	1
		Which of the following frequency-bands is used by the	90 - 110 kHz	1750 - 1950	10.2 - 13.6	978 - 1213				П	ı
4861	62	Loran C navigation system?		kHz	kHz	MHz		1	0	0	0
40.00		Which of the following is the ICAO allocated frequency band	200 - 2000	200 - 1750	255 - 455 kHz	300 - 3000		_			
4862	62	for ADF receivers?	kHz	kHz	lt in milet	kHz		ľ	1	0	
		Which of the following is an advantage of Ground/DF (VDF) let-down?	It does not require any	It only requires a	It is pilot interpreted	It does not require any					
		iot down:	special	VHF radio to	and does	special	1				
			equipment,	be fitted to	not require	equipment					
			apart from a	the aircraft	the	to be fitted					
			VHF radio, to		assistance	to the aircraft					
			be installed		of ATC						
			in the								
			aircraft or on								
40.00	60		the ground					<u>_</u> ا	4	ارا	
4863	62	(For this question use annex 062-9915A)	20° Right	20° Left	12° Right	8° Left		٢	!	0	\dashv
4864	62	(For this question use affirex 062-99 15 A)	20 Kigrit	20 Leit	12 Kigiil	o Leit		0	0	0	1
		What is the approximate angular coverage of reliable	3° above and	1.35° above	0.45° above	0.7° above		Г		П	7
		navigation information for a 3° ILS glide path out to a	below the	the	the	and below				ıl	
		distance of 10 NM?	glide path	horizontal to	horizontal to	the glide				ıl	
			and 10°	5.25° above	1.75° above	path and				ıl	
			each side of	the	the glide	2.5° each				ıl	
			the localiser	horizontal an	path and 8°	side of the				ıl	
			centreline	d 8° each	each side of	localiser				Ιl	
				side of the	the localiser	centreline				ıl	
				localiser centreline	centreline						
4865	62							0	1	0	0
		(For this question use annex 062-9917A)	030°(M)/20KT	255°(M)/20KT	285°(M)/20KT	105°(M)/20KT				П	T
4866	62							0	0	0	1
		Under JAR-25 colour code rules for Electronic Flight	green	white	magenta	yellow					
4867	62	Instrument Systems (EFIS), selected data and values are coloured:						ا	١	0	ام
4007	02	(For this question use annex 062-9919A)	280°(M)	272°(M)	300°(M)	260°(M)		ŀ	_	H	\dashv
4868	62	(1 of this question use annex 002-33 13 A)	200 (IVI)	21 Z (IVI)	300 (W)	200 (IVI)		0	1	0	0
		(For this question use annex 062-9920A)	VOR/DME	TACAN	VOR	Airport				П	7
4869	62							1	0	0	0
		(For this question use annex 062-9921A)	the	an off-route	a designated	an off-route					
		The 'O' followed by the letters 'KABC' indicate:	destination	airport	altemate	VOR/DME				Ιl	
4870	62	The Colonwood by the letters in 1900 manage.	airport		airport			<u>ا</u> ا	1	0	١
4070	02	(For this question use annex 062-9922A)	272°(M)	280°(M)	300°(M)	260°(M)		١Ť	_	H	\dashv
4871	62	(300 ()			0	0	0	1
		(For this question use annex 062-9923A)	right of the	left of the	left of the	right of the				П	\neg
		The discussion is discussed to the singular file to the state of	localizer and	localizer and	localizer and	localizer and					
		The diagram indicates that the aircraft is to the:	above the	below the	above the	below the				Ιl	
4872	62		glidepath	glidepath	glidepath	glidepath		_	ارا	0	1
-ru / Z	J-2	(For this question use annex 062-9914A)	Figure 2	Figure 3	Figure 5	Figure 6		۲	H	H	\dashv
			1. 1941 0 2	1. 19410 0	1. 19410 0	1. 1941 0 0					
		Which of the figures depicts an Electronic Flight Instrument									
4873	62	System (EFIS) display in FULL VOR/ILS mode with an ILS						0	0	0	1
4074	60	What airborne equipment, if any, is required to be fitted in	VHF radio	VOR	none	VOR/DME		آ ا		ا را	
4874	62	order that a VDF let-down may be flown?	00.7%/T\	1700/11	1400/14)	20.00/T\		1	U	0	<u> </u>
4875	62	(For this question use annex 062-9916A)	097°(T)	170°(M)	140°(M)	280°(T)		1	0	0	٥
.575		<u> </u>	<u> </u>	<u> </u>	I	<u> </u>	I	<u> </u>	ٽ	لت	ت

		In which one of the following circumstances is ground direction finding (VDF) likely to be used to fix an aircraft's	When contacting	When declaring an	When using the	On first contact with				
		position?	ATC to join	emergency	emergency	ATC on				
			controlled airapace	on any frequency	VHF frequency	crossing an international				
			from the	Inequency	121.5 MHz	FIR boundary				
40.70	60		open FIR				١	٥	4	
4876 4877	62 62	In which frequency band does the Microwave Landing	VHF	UHF	SHF	EHF		0		П
4077	02	System (MLS) operate? GPS system satellites transmit their signals on two carrier	only the 1	only the 1	the two	only the 1	٢	_	_	H
		waves 1575 MHz and 1227 MHz and supply two possible	575 MHz	227 MHz	carrier	575 MHz				
		codes accessible acording to user (civil or military).	carrier wave	carrier wave	waves and	carrier wave				
4878	62	Commercial aviation uses:	and two codes	and one code	one public code	and one code	0	0	0	1
		A weather radar, set to the 100 NM scale, shows a squall at	decrease in	increase in	increase in	decrease in				П
		50NM. By changing the scale to 50 NM, the return on the radar screen should:	area and	area and	area and	area but not change in				
		Tada i Scieeri Should.	move to the top of the	move to the top of the	appear nearer to the	position on				
			screen	screen	bottom of the	the screen				
4879	62				screen		١	1	٥	
4073	02	A secondary radar can provide up to 4096 different codes.	mode S	all modes	mode A only	mode C only	Ť	_	١	Ĭ
4880	62	These 4096 codes can be used in:					0	1	0	0
		In weather radar the use of a cosecant beam in 'Mapping'	higher	scanning of a	better	a greater				
		mode enables:	definition echoes to be	large ground zone	reception of echos on	radar range to be				
			produced	producing	contrasting	achieved				
			giving a	echos	terrain such					
			clearer	whose signal	as ground to					
			picture	s are practically	sea					
				independent						
				of distance						
4881	62						0	1	0	0
4882	62	The code transmitted by a SSR transponder consists of:	phase differences	frequency differences	amplitude differences	pulses	n	0	0	1
1 002		The VOR system is limited to about 1° of accuracy. One	3.0 NM	3.5 NM	2.0 NM	2.5 NM	ľ	۲		H
4883	62	degree at 200 NM represents a width of:					١	1	٥	
4000	02	An aircraft is "homing" to a radio beacon whilst maintaining a	left drift	zero drift	a wind from	right drift		Ė	0	H
		relative bearing of zero.			the west					
4884	62	If the magnetic heading decreases, the aircraft is					0	0	0	1
		Given:	226°	046°	224°	044°				
		Compass heading 270°								
		Deviation 2°W								
4885	62	Variation 30°E					0	0	0	1
		Radar returns, on a B737-400, can be displayed on all	FULL	FULL NAV,	EXP VOR/	FULL NAV,				
		Electronic Horizontal Situation Indicator (EHSI) screen modes of an Electronic Flight Instrument System (EFIS)	VOR/ILS, EXP	FULL VOR/ILS	ILS, PLAN and MAP	PLAN and MAP				
		WITH THE EXCEPTION OF:	VOR/ILS	and PLAN	andivia	IVIZ				
4886	62	(Facilities and the control of the c	and PLAN	E'	E'	F: 0	0	1	0	0
		(For this question use annex 062-9906A)	Figure 3	Figure 4	Figure 1	Figure 2				
4887	62	Which of the figures depicts an Electronic Flight Instrument During a flight at FL 210, a pilot does not receive any DME	altitude is too	range of a	aeroplane is	aeroplane is	0	0	0	1
		distance indication from a DME station located	high	DME system	below the	circling				
		approximately 220 NM away.		is always	'line of sight'	around the				
		The reason for this is that the:		less than 200 NM	altitude	station				
4888	62						0	0	1	0
		A DME is located at MSL.	8 NM	6 NM	7 NM	11 NM				
40.00		An aircraft passing vertically above the station at flight level FL 360 will obtain a DME range of approximately:								
4889	62	The DME (Distance Measuring Equipment) operates within	329 to 335	962 to 1213	962 to 1213	108 to 118	0	1	0	0
4890	62	the following frequencies:	MHz	kHz.	962 to 1213 MHz	MHz	0	0	1	0
										_

		An aircraft DME receiver does not lock on to its own	the pulse	DME uses	they are not	DME					\Box
		transmissions reflected from the ground because:	recurrence	the UHF	on the	transmits					
			rates are	band	receiver	twin pulses					
4891	62		varied		frequency			0	0	1	0
		Under JAR-25 colour code rules for Electronic Flight	green,	green, red,	black,	amber/yellow,					
		Instrument Systems (EFIS), increasing intensity of	amber/yellow	magenta,	amber/yellow	magenta,					
		precipititation are coloured in the order:	, red,	black	, magenta,	black					
40.00			magenta		red						
4892	62							1	0	0	0
		Under JAR-25 colour code rules for Electronic Flight	black	cyan	white or	red					
40.00	62	Instrument Systems (EFIS), turbulence is coloured:			magenta			۱۰۱	0	,	٦
4893	02	/Farth's massife and a constant of the constan	00.00(8.4)	00.00(11.1)	07.00(1.4)	00.00(1.4)		٢	-	╣	\dashv
4894	62	(For this question use annex 062-9918A)	280°(M)	299°(M)	272°(M)	260°(M)		١	1		٦
4094	02	(For this guartier was approx 062 000FA)	Figure 4	Figure 4	Figure 2	Figure 2		٢	'	-	-
		(For this question use annex 062-9905A)	Figure 4	Figure 1	Figure 2	Figure 3					
4895	62	Which of the figures depicts an Electronic Flight Instrument						n	0	٥	1
1000		(For this question use annex 062-9913A)	Figure 2	Figure 3	Figure 5	Figure 6		Ť	Ť	Ť	H
		(1 of this question use affice out 55 15A)	I iguic 2	I iguic 5	I iguic 5	I igai c o					
		Which of the figures depicts an Electronic Flight Instrument									
		System (EFIS) display in Expanded (EXP) VOR/ILS mode									
4896	62	with an ILS frequency selected?						0	0	1	0
		(For this question use annex 062-9907A)	Figure 4	Figure 1	Figure 2	Figure 3					ヿ
					-	-					
		Which of the figures depicts an Electronic Flight Instrument									
		System (EFIS) display in Expanded (EXP) VOR/ILS mode									
4897	62	with an ILS frequency selected?						0	1	0	0
		(For this question use annex 062-9910A)	Figure 2	Figure 3	Figure 4	Figure 6					
		Military of the Common descriptions Floridaes in Floridae and									
4898	62	Which of the figures depicts an Electronic Flight Instrument						1	0	0	0
		(For this question use annex 062-9912A)	Figure 4	Figure 5	Figure 6	Figure 1					
		Which of the figures depicts an Electronic Flight Instrument									
		System (EFIS) display in Expanded (EXP) VOR/ILS mode									
4899	62	with an VOR frequency selected?						ا ا	0	٦	٦
4099	02	· ·	Figure 2	Figure 3	Figure 4	Figure 5		ŀ	\vdash	ᅴ	\dashv
		(For this question use annex 062-9911A)	Figure 2	Figure 5	Figure 4	Figure 5					
4900	62	Which of the figures depicts an Electronic Flight Instrument						0	1	٥	0
1000		(For this question use annex 062-9909A)	Figure 4	Figure 5	Figure 6	Figure 1		Ė			Ħ
			1 .94	1.1940	l igai e e	l igui o i					
		Which of the figures depicts an Electronic Flight Instrument									
4901	62	System (EFIS) display in FULL VOR/ILS mode with an						0	0	0	1
		(For this question use annex 062-9908A)	Figure 1	Figure 2	Figure 3	Figure 4					٦
		Which of the figures depicts an Electronic Flight Instrument			1						
		System (EFIS) display in Expanded (EXP) VOR/ILS mode			1						
40.02	62	with a VOR frequency selected?			1			_	0	۱	,
4902	02			L		l	<u> </u>	Ľ	ப	٧	