## **INSTRUMENTATION - AEROPLANES**

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1	г		1	l	1	1	$\Box$	$\neg$	$\neg$	$\neg$
1117	22	The red pointer which is normally on the red line on the EGT (Exhaust Gas Temperature) indicators:	allows the display of the paramete r value to be adopted during take-off.	shows the vibration level of the engine under consideration.	moves when the correspondin g value is exceeded and remains positioned at the maximum value that has been reached.	shows the limit value not to be exceeded.	0	0	1	0
		A landing will be considered to be performed in the SEMI-AUTOMATIC mode when:	3, 4 and 5.	1 and 4.	2, 3 and 5.	1 and 2.	Ť	Ť	Ť	Ť
		1- the autopilot maintains the airplane on the ILS beam until the decision height is reached then is disengaged automatically.  2- the autothrottle maintains a constant speed until the decision height is reached then is disengaged automatically.								
		3- the autopilot maintains the airplane on the ILS beam until								
		the flare.								
		4- the autothrottle decreases the thrust when the height is approximately 30 ft.								
1118	22	5- the flare and the ground roll are performed automatically.					0	0	0	1
		When using the autopilot, the function of the pitch channel automatic trim is to:	1 and 2.	1, 2 and 3.	3.	1 and 3.				
		1- cancel the hinge moment of the elevator								
		2- ease as much as possible the load of the servo-actuator								
		3- restore to the pilot a correctly trimmed airplane during the autopilot disengagement								
1119	22						0	1	0	0
		Among the following functions of an autopilot, those related to the airplane guidance are:	1, 3, 4 and 5.	3, 4 and 5.	1, 2, and 6.	1, 2, 3 and 6.				
		1- pitch attitude holding								
		2- horizontal wing holding								
		3- indicated airspeed or Mach number holding								
		4- altitude holding								
1120	22	5- VOR axis holding					0	1	0	0
		Among the following functions of an autopilot, those related to the airplane stabilization are:	2, 4, and 5.	1, 2 and 5.	1, 2, 3 and 6.	3, 4, 5 and 6.				
		1- pitch attitude holding								
		2- horizontal wing holding								
		3- displayed heading or inertial track holding								
		4- indicated airspeed or Mach number holding								
1121	22	5- yaw damping					0	1	0	0

		A pitot blockage of both the ram air input and the drain hole	read a little	read a little	freeze at zero.	react like				П
1122	22	with the static port open causes the airspeed indicator to :	high.	low.		an altimeter.	0	0	0	1
1 122		A pitot tube covered by ice which blocks the ram air inlet will affect the following instrument (s):	airspeed indicator, altimeter and	airspeed indicator only.	altimeter only.	vertical speed indicator				
1123	22		vertical speed indicat or.			only.	0	1	0	0
1124	22	The altimeter is fed by :	differential	static	dynamic	total		1	^	
1 124	22	The vertical speed indicator (VSI) is fed by:	pressure differential	pressure static	pressure dynamic	pressure total	U	_	0	$\dashv$
1125	22		pressure	pressure	pressure	pressure	0	1	0	0
		The float type fuel gauges provide information on:	mass whose indication varies with the temperature of the fuel.	mass whose indication is independent of the temperature of the fuel.	volume whose indicat ion varies with the temperature of the fuel.	volume who se indication is independe nt of the				
1126	22					temperatur e of the fuel.	0	0	1	
		Torque can be determined by measuring the:	oil pressure at the fixed crown of an epicycloidal reducer of the main engine gearbox.	phase difference between 2 impulse tachometers attached to a transmission shaft.	frequency of an impulse tachometer attached to a transmission shaft.	quantity of light passing through a rack-wheel attached to a transmissi on shaft.				
1127	22	A "close traffic advisory" is displayed on the display device	a blue or	a red full	a blue or	an orange	1	0	0	$\dashv$
1128	22	of the TCAS 2 (Traffic Collision Avoidance System) by :	white full lozenge.	square.	white empty lozenge.	full circle.	0	0	1	0
1129	22	A "resolution advisory" (RA) is represented on the display system of the TCAS 2 (Traffic Collision Avoidance System) by a:	blue or white empty lozenge.	red full circle.	red full square.	blue or white full lozenge.	0	0	1	
		An "intruding traffic advisory" is represented on the display system of the TCAS 2 (Traffic Collision Avoidance System) by displaying:	a red full square.	a yellow full circle.	a blue or white empty lozenge.	a blue or white full lozenge.				
1130	22	On a TCAS 2 (Traffic Collision Avoidance System) the preventive "resolution advisory" (RA) is a "resolution advisory":	that advises the pilot to avoid certain deviations from the current vertical rate but does not require any change to be made to that rate.	asking the pilot to modify effectively the vertical speed of his aircraft.	asking the pilot to modify the heading of his aircraft.	asking the pilot to modify the speed of his aircraft.		0		
1131	22	On a TCAS2 (Traffic Collision Avoidance System), a corrective "resolution advisory" (RA) is a "resolution advisory":	asking the pilot to modify effectively the vertical speed of his aircraft.	which does not require any action from the pilot but on the contrary asks him not to modify his current vertical speed rate.	asking the pilot to modify the heading of his aircraft.	asking the pilot to modify the speed of his aircraft.	-	U .	5	
1132	22						1	0	0	0

1133	22	When only one autopilot is used for climbing, cruising and approach, the system is considered:  The Altitude Select System:	"fail survival" or without failure effect with function always ensured.	"fail safe" with failure effect without disco nnection.	"fail soft" or with minimized failure effect.	"fail passive" or without failure effect but with disconnect ion.	0	0	1	0
1134	22		autopilot Auto Trim at selected altitude	annunciated by light and/or sound when airplane is approaching selected altitude	light when selected altitude is attained	autopilot Auto Trim at selected altitude	0	1	0	0
	22	The purpose of Auto Trim function in autopilot is to:	tell the pilot when elevator trimming is required	trim throttles to obtain smooth engine power variati on	control elevatortrim tab in order to relieve elevatorload	help Auto Pilot compensat e for crosswind influence			1	
		The purpose of Auto Throttle is:	automatic shut down of one engine at too high temperature	to deactivate manual throttles and transfer engine control to Auto Pilot	to synchronize engines to avoid "yawing"	to maintain constant engine power or airplane speed				
	22	The capacity fuel gauges provide information:	on mass who se indication is independent of the temperature of the fuel.	on mass whose indication varies with the temperature of the fuel.	which is independent of the temperature of the fuel.	which varies with the temperatur e of the fuel.			0	
		The diagram on annex 022-648A shows three gyro assemblies: A, B and C. Among these gyros,  -one is a roll gyro (noted 1)  -one is a pitch gyro (noted 2)	1C, 2B, 3A	1B, 2A, 3C	1A, 2B, 3C	1B, 2C, 3A				
	22	-one is a yaw gyro (noted 3)  An autopilot capable of holding at least altitude and heading mode is compulsory:	for IFR or night flights with only one pilot.	on multipilot airplanes.	for VFR and IFR flights with only on e pilot.	on airplanes over 5.7 t.			0	
		If the static source of an altimeter becomes blocked during a descent the instrument will:	gradually indicate zero	un de r- read	indicate a height equivalent to the setting on the millibar subscale	continue to display the reading at which the blockage occured				
1140	22	The primary factor which makes the servo-assisted altimeter more accurate than the simple pressure altimeter is the use of:	a sub-scale logarithmic function	an induction pick-off device	more effective tem perature compensatin g leaf springs	combinatio n of counters/p ointers	0	0	0	1
1141	22						0	1	0	0

		If the static source to an altimeter becomes blocked during a	continue to	under-read	over-read	gradually					
		climb, the instrument will:		by an		retum to					
			reading at	amount equiv		zero					
			which the	alent to the							
			blockage occured	reading at the time that							
			occured	the							
				instrument							
				became							
				blocked							
1142	22	K the static service to an airmined indicator (ACI) becomes		continue to	under-read				0	0	0
		If the static source to an airspeed indicator (ASI) becomes blocked during a descent the instrument will:	read zero	indicate the	under-read	over-read					
				speed							
				applicable to							
				that at the							
				time of the							
1143	22			blockage				0	0	0	1
		When climbing at a constant Mach number below the	decrease	increase at a	remain	increase at		Н			7
		tropopause, in ISA conditions, the Calibrated Airspeed		linear rate	constant	an					
4444	20	(CAS) will:				exponentia					
1144	22	Ear a constant Calibrate d Airpas ad (CAC) and a lawel find the	lower True	lower True	higher True	I rate higher		빝	0	Ч	<u> </u>
		For a constant Calibrated Airspeed (CAS) and a level flight, a fall in ambient temperature will result in a:		Airspeed	Airspeed	nigner True Airsp					
		and the state of t		(TAS) due to	(TAS) due to	eed (TAS)					
			a decrease in	an increase	a decrease in	duetoan					
			air density	in air den sity	air density	increase					
						in air					
1145	22					density		0	1	0	0
		When descending through an isothermal layer at a constant	decrease	increase at a	remain	increase at		Н	П		T
		Calibrated Airspeed (CAS), the True Airspeed (TAS) will:		linear rate	constant	an					
1146	22					exponentia			0	٨	
1 140	$\overline{}$	A leak in the pitot total pressure line of a non-pressurized	under-read.	over-read.	over-read in	I rate un de r-read		H	H	$\Box$	$\dashv$
		aircraft to an airspeed indicator would cause it to:	diract road.	over read.	a climb and	in a climb					
					un de r-read	and					
					in a descent.	over-read					
1147	22					ina			0	٨	
1 147		The airspeed indicator circuit consists of pressure sensors.	the total	the static	the total	descent. the		H	H		러
		The pitot tube directly supplies:	pressure	pressure	pressure and	dynamic					
					the static	pressure					
1148	22				pressure			1	0	٥	٦
1 140		An aeroplane is in steady climb. The autothrottle maintains a	decreases.	remains	decreases if	increases.		H	H	Ť	$\dashv$
		constant calibrated airspeed. If the total temperature remains		constant.	the static						
		constant, the Mach number:			temperature						
					is lower than						
					the standard temperature.						
					temperature.						
1149	22							0	0	0	1
		The indications on a directional gyroscope or gyrocompass	2,3,5.	1,2,3,5.	3, 4,5.	1, 2,4,5.					
		are subject to errors, due to:									
		1- rotation of Earth.									
		2- aeroplane motion on Earth.									
		3- lateral and transversal aeroplane bank angles.									
1150	22	4- north change	dana t	00.11-	. 50/4	F0/L		0	1	0	0
		For an aircraft flying a true track of 360° between the 005°S and 005°N parallels, the precession error of the directional	depends only on the	0°/hour	+5°/hour	-5°/hour					
		CALLLELLA DE DALATIEIS TOE DEPCESSION ENOUGO DE TOE OTECCHONAL	ion me	ı	I		I	ı 1	ı I		
			aircraft's								
1151		gyro due to apparent drift is equal to:									

1152	22	While inertial platform system is operating on board an aircraft, it is necessary to use a device with the following characteristics, in order to keep the vertical line with a pendulous system:	without damping and a period of about 84 seconds	with damping and a period of 84 seconds	with damping and a period of about 84 minutes.	without damping and a period of about 84 minutes	0	0	1	
1153	22	In order to align a strapdown inertial unit, it is required to insert the local geographical coordinates. This is necessary to:	Position the computing trihedron with reference to earth.	Check operation of laser gyros.	Determine magnetic or true heading.	Re-erect laser gyros.		0		
	22	An automatic pilot is a system which can ensure the functions of:	piloting from take-off to landing without any action from the human pilot.	piloting and guidance of an aircraft in both the horizontal and vertical planes.	piloting only.	na vigation.		1		
	22	An aeroplane is equipped with a Flight Director (with crosshair trend bars), heading 270°, in HDG mode (heading hold). A new heading, of 360°, is selected the vertical trend bar:	deviates to its right stop as long as the aeroplane is more than 10° off the new selected heading.	deviates to the right and will be centred as soon as you roll the aircraft to the bank angle calculated by the flight director.	deviates to the right and remains in that position until the aircraft has reached heading 360°.	disappears, the new heading selection has deactivate d the HDG mode.	0		0	
		requiring action but not immediately, are signalled by the	flashing red	amber	red	green				П
	22	colour: Among the errors of a magnetic compass, are errors:	in North seeking, due to bank angle and magnetic heading	due to cross-wind gusts particularly on westerly or easterly headings	due to Schüler type oscillations	of parallax, d ue to oscillations of the compass rose	1	0		
1158	22	On an aeroplane equipped with a constant speed propeller, the RPM indicator enables:	control of power.	selection of engine RPM.	on a twin-engine aeroplane, automatic engine synchronisati on.	control of the propeller regulator and the display of propeller RPM.	0	0	0	1
		A stall warning system is based on a measure of:	groundspeed.	aerodynamic incidence.	airspeed.	attitude.				
1159	22	When the auto-pilot is engaged; the role of the automatic trim is to:	relieve the pressure on the control column and retum, the aircraft in-trim at A. P. disconn ect	react to altitude changes in Altitude Hold mode	synchronize the longitudinal loop	relieve the A. P. servo motor and retum the aircraft in-trim at A. P. disconnect	0	1	0	0
1160	22						0	0	0	1

		The command functions of an autopilot include, among	2 - 3 - 4	1 - 2 - 5	1 - 2 - 3 - 5	3 - 5				
		others, the holding of:								
		1- vertical speed								
		2- altitude								
		3- attitude								
1 161	22	4- bank					0	1	0	0
1162	22	Machmeter readings are subject to:	temperature error.	setting error.	position pressure error	density error.	0	0	1	0
		Sound propagates through the air at a speed which only	temperature	pressure.	density.	temperatur				П
1163	22	depends on :	and the pressure.			e.	0	0	0	1
		The GPWS (Ground Proximity Warning System) releases a warning in the following cases:	1, 2, 3, 4, 5	2, 4, 5, 6	1, 2, 3, 4, 5, 6	3, 4, 5, 6				
		1- excessive rate of descent								
		2- excessive ground proximity rate								
		3- loss of altitude after take-off or go-around								
		4- abnormal gear/flaps configuration								
1164	22	5- excessive deviation under the glidepath					1	0	0	
		In order to know in which mode the autothrottles are	ND	TCC (Thrust	throttles	PFD				П
1165	22	engaged, the crew will check the :	(Navigation Display).	Control Computer).	position.	(Primary Flight Display)	0	0	0	1
		According to the JAR-OPS regulations, the Cockpit Voice Recorder of a 50 seat multi-engined aircraft having been granted the airworthiness certificate after 1st April 1998 will record:	1,2,3,4,5,6	1	1,3,4,5	1,2,4,5,6				
		1- the radiotelephonic communications transmitted or received by the cockpit crew								
		2- the audio environment of the cockpit								
		3- the cabin attendants communications in the cabin via the interphone								
		4- the flight crew members communications in the cockpit via the interphone								
1166	22	5- the flight crew members communications in the cockpit via the public address system					0	0	0	1
		According to the JAR-OPS regulations, the Cockpit Voice Recorder of a 50 seat multi-engined aircraft, having been granted an airworthiness certificate after 1st April 1998, shall start recording:	Automatically when the wheels leave the ground until the moment when the wheels touch the ground again.	From the first radio contact with Air Traffic Contro I until radio shutdown after the flight.	When the pilot selects the "CVR: ON" during engine start until the pilot selects the "CVR: OFF" during the engine shut down.	Automatica Ily prior to the aircraft mo ving under its own power until flight completion when the aircraft is no longer able to move under its own power.				
1167	22						0	0	0	1

		The TCAS 2 (Traffic Collision Avoidance System) provides :	1, 2, 3	1, 2, 3, 4	1, 3	1, 2					丁
		1- traffic information (TA: Traffic Advisory)									
		2- horizontal resolution (RA: Resolution Advisory)									
		3- vertical resolution (RA: Resolution Advisory)									
		4- ground proximity warning									
1168	22							0	0	1	0
		The aim of the flight director is to provide information to the pilot:	allowing him to return to a desired path according to a 45° intercept angle.	allowing him to return to a desired path according to a 30° intercept angle.	allowing him to return to a desired path in an optimal way.	about his position with regard to a radioelec tric axis.					
1169	22							0	0	1	0
1170	22	(For this question use annex 022-9768A)  An aircraft is under guidance mode following a VOR radial.  From the ADI and HSI information represented in the enclosed annex, it is possible to deduce that the aircraft is:	located to the left side of the selected radial.	located to the rightside of the selected radial.	experiencing rightside wind.	experiencin g a leftside wind.		0	0	0	1
		The correction of the control surface deflection made by the automatic pilot calculator in order to stabilize the longitudinal attitude will be all the more significant as the:	1,2.	1, 2, 3, 4.	1, 2, 3.	2, 3, 4.					
		1- difference between the reference attitude and the instantaneous attitude is high.  2- rate of change of the difference between the reference									
		attitude and the instantaneous attitude is high.									
		3- temperature is low. 4- pressure altitude is high.									
4 4 7 4	00	4- piessure autude is riigii.							۰		
1171	22	The correction of the control surface deflection made by the	1, 2, 3 and 4.	1 and 2.	3 and 4.	1, 2 and 3.		1	0	0	4
		auto-pilot calculator in order to keep a given altitude will be all the more significant when the:	, ,			,					
		1- difference between the attitude necessary to keep the given or reference altitude and the instantaneous at titude is high.									
		2 - variation speed of the difference between the attitude necessary to maintain the altitude and the instantaneous attitude is high.									
		3 - difference between the altitude of reference and the instantaneous altitude is high.									
		4 - variation speed of the difference between the reference altitude and the instantaneous altitude is high.									
1172	22	(For this question use annex 022-9771A)	781.85 hPa.	942.13 hPa.	1 013.25 hPa.	644.41		1	0	0	0
1173	22	The atmospheric pressure at FL 70 in a "standard + 10"		0-2.10111 a.	. 010.20 III d.	hPa.		$\left  \begin{array}{c} 1 \\ 1 \end{array} \right $	0	٥	0
1113		The Ground Proximity Warning System (GPWS) is a system working according to a height span ranging from:	30 ft to 5 000 ft	the ground to	50 ft to 2 500 ft	the ground to 1 000 ft		H	7	J	$\dashv$
1174	22	3 g 100g 11 9 p 100 11 11 11 11 11 11 11 11 11 11 11 11	·		ĺ			ا ا	0	1	0
			I	<u> </u>	L	L	I	ٽ	<u> </u>		ت

1175	22	All the anemometers are calibrated according to:  In the building principle of a gyroscope, the best efficiency is obtained through the concentration of the mass:	into account the air compressibilit y.  close to the axis and with a low rotation	St-Venant's formula which considers the air as an uncompressib le fluid.  on the periphery and with a high rotation	Bemouilli's limited formula which considers the air as an uncompressib le fluid.  close to the axis and with a high rotation spee	St-Venant' formula which takes into account the air compressi bility.  on the periphery and with a low	0	0	0	1
1176	22			speed.	d.	rotation speed.	0	1	0	0
1177		The velocity of sound at the sea level in a standard atmosphere is:	644 kt.	332 kt.	661 kt.	1059 kt.	0	0	1	0
	22	·	lower than the true airspeed (TAS).	equal to the true airspeed (TAS).	independent of the true airspeed (TAS).	higher than the true airspeed (TAS).		1		
		The GPWS calculator receives the following signals:  1 - vertical speed  2 - radio altimeter height  3 - pressure altitude  4 - glidepath deviation  5 - gear and flaps position	2,3,4,6	1,2,4,5	1,3,4,5,6	1,2,5,6				
1179	22						0	1	0	0
1180		The GPWS calculator is able to operate in the following modes:  1- excessive descent rate 2- excessive rate of terrain closure 3- excessive angle of attack 4- too high descent attitude 5- loss of altitude after take-off	1,2,4,6,7	3, 4,5,6	2,3,5,7	1,2,5,6,7	0	0	0	1
1 100		, , , , , , , , , , , , , , , , , , , ,	50 ft to 5 000	50 ft to 2 500	0 ft to 2 500 ft	0 ft to 5	Ť	Ť	Ť	╛
1181	22	a height range from:		ft measured by the radio altimeter.	measured by the radio altimeter.	000 ft measured by the radio altimeter.	0	1	0	0
. 101		For capturing and keeping a preselected magnetic heading, the flight director computer takes into account:  1- track deviation 2- rate of track closure 3- rate of change of track closure 4- wind velocity given by the inertial reference unit	1,2,4	2,3,4	1,3,4	1,2,3			3	
1182	22						0	0	0	1

		The TCAS 1 (Traffic Collision Avoidance System) provides:	1, 2, 3	1, 2, 3, 4	1	1, 2	П		П	
		1- traffic information								
		2- horizontal resolution (RA: Resolution Advisory)								
		3- vertical resolution (RA: Resolution Advisory)								
		4- ground proximity warning								
1183	22						0	0	1	0
		The angle of attack transmitter provides an electric signal varying with:	1, 2 and 3.	1.	2 and 3.	1 and 3.				
		1- the angular position of a wind vane								
		2- the deviation between the airplane flight attitude and the path calculated by the inertial unit								
1184		3- a probe differential pressure depending on the variation of the angle of attack					0	0	0	1
		In a selected axis capture mode, the autopilot gives a bank at titude input:	proportional to the deviation between the selected heading and the current heading but not exceeding a given value.	of a fixed value e qual to 27°.	of a fixed value equal to 20°.	proportiona I to the aircraft true airspeed but not exceeding a given value.				
1185	22						1	0	0	0
		In transport airplanes, the temperatures are generally measured with:	1, 3, 4, 5	1, 2, 5	2, 3	1, 2				
		1- resistance the mometers								
		2- thermocouple thermometers								
		3- reactance thermometers								
1186	22	4- capacitance thermometers					0	0	0	1
		The QNH is by definition the value of the:	altimeter setting so that the needles indicate zero when the aircraft is on ground at the location for which it is provided.	atmospheric pressure at the level of the ground overflown by the aircraft.		atmospheri c pressure at the sea level of the locatio n for which it is given.				
1187	22	A synchroscope is used on aircraft to:	reduce the	reduce the	achieve	set several	0	0	1	0
		The system occupies to dood off an orait to.	vibration of each engine.	rpm of each engine.	optimum control of on-board voltages.	engines to the same speed.				
1188	22				,g. v.		0	0	0	1

		A landing will be considered to be performed in the AUTOMATIC mode when:	1 and 2.	2, 3 and 5.	1 and 4.	3, 4 and 5.				
		1- the autopilot maintains the airplane on the ILS beam until the decision height is reached then is disengaged automatically.								
		2- the autothrottle maintains a constant speed until the decision height is reached then is disengaged automatically.								
		3- the autopilot maintains the airplane on the ILS beam until the flare.								
		4- the autothrottle decreases the thrust when the height is approximately 30 ft.								
1189	22	5- the flare and the ground roll are performed automatically.					0	0	0	1
		When the intruding aircraft is equipped with a transponder without altitude reporting capability, the TCAS (Traffic Collision Avoidance System) issues a:	"traffic advisory" and horizonta I "resolution advisory".	"traffic advisory", vertical and horizontal "resolution advisory".	"traffic advisory" only.	"traffic advisory" and vertical "re solution advisory".				
1190	22						0	0	1	0
		In automatic landing mode, when the 2 autopilots are used, the system is considered:	"fail survival" or without failure effect with function always ensured.	"fail soft" or with minimized failure effect.	"fail passive" or without failure effect but with disconnection .	"fail hard" or with failure effect and disconnecti on.				
1191	22						1	0	0	0
		In automatic landing mode, in case of failure of one of the two autopilots, the system is considered:	"fail soft" with minimized failure effect.	"fail passive" or without failure effect but with disconnection .	"fail survival" or without failure effect with function always ensured.	"fail hard" or without failure effect and disconnecti on.				
1192	22						0	1	0	0
1193	22	The flight director indicates the:	optimum path at the moment it is entered to reach a selected radial.	path permitting reaching a selected radial in minimum time.	path permitting reaching a selected radial over a minimum distance.	optimum instantane ous path to reach selected radial.	0	0	0	1
1100		The stall warning system receives information about the :	1, 2, 3, 4, 5	2, 3, 4, 5	1, 3, 5	1, 4	_	_	Ť	H
		<ul><li>1- airplane angle of attack</li><li>2- airplane speed</li><li>3- airplane bank angle</li><li>4- airplane configuration</li></ul>								
1194	22	5-load factor on the airplane					0	0	0	1
		During an automatic landing, from a height of about 50 ft the:	autopilot maintains a vertical speed depending on the radio altimeter height.	glideslope mode is disconnected and the airplane continues its descent until landing.	autopilot maintains an angle of attack depending on the radio altimeter height.	Loc and Glideslope modes are discon nected and the airplane carries on its descent un til landing.				
1195	22						1	0	0	0
			<del></del>	<del></del>						

		The TCAS (Traffic Collision Avoidance System) computer	1, 2, 4	1, 2	1, 2, 3	1, 2, 3, 4				٦
		receives information:								
		1- about the pressure altitude through the mode S transponder								
		2- from the radio-altimeter								
		3- specific to the airplane configuration								
1196	22	4- from the inertial units					0	0	1	0
		An autopilot is selected "ON" in mode "altitude hold," the pilot alters the barometric pressure set on the sub-scale of his altimeter the:	aircraft will remain at the same altitude, the autopilot takes its	aircraft will climb or descend in the sense of the change, the autopilot	mode altitude hold will disengage	aircraft will remain at the same altitude, the autopil ot takes its				
			pressure information from the altimeter corrected to standard pressure, 1013.25 hPa	takes its pressure information from the altimeter		pressure informatio n from the static source				
1197	22		10 13.23 111 a				0	0	0	1
1198	22	The white sector of the arc of a temperature gauge corresponds to:	an exceptional o perating range.	a forbidden operating range.	a special operating range.	a normal operating range.	0	0	1	0
		On a modern aircraft, the flight director modes are displayed on the:	control panel of the flight director only.	upper strip of the PFD (Primary Flight Display).	upper strip of the ND (Na vigation Display).	upper strip of the ECAM (Electronic Centralize d A/C Managem ent).				
1199	22						0	1	0	0
1200	22	All the last generation aircraft use flight control systems. The Flight Management System (FMS) is the most advanced system; it can be defined as a:	management system optimized in the horizontal pla ne	global 2-D Flight Management System	global 3-D Flight Management System	manageme nt system optimized in the vertical plane	0	0	1	0
	22	When the intruding aircraft is equipped with a serviceable mode C transponder, the TCAS II (Traffic Collision Avoidance System) generates a :	"traffic advisory", vertical and horizontal "resolution advisory".	"traffic advisory" and vertical "resolution advisory".	"traffic advisory" and horizonta I "resolution advisory".	"traffic advisory" only.	0	1	0	
		The airspeed indicator of an aircraft is provided with a moving red and white hatched pointer. This pointer indicates the:	speed indicated on the autothrottle control box, versus temperature	speed indicated on the autothrottle control box versus altitude	maximum speed in VMO operation versus altitude	maximum speed in VMO operation, versus temperatur e				
1202	22		·				0	0	1	0
		An aeroplane is in steady cruise at flight level 270. The autothrottle maintains a constant calibrated airspeed. If the total temperature decreases, the Mach number:	decreases.	increases if the outside temperature is higher than the standard temperature, decreases if lower.	remains constant.	increases.				
1203	22	At sea level, on a typical servo altimeter, the tolerance in feet	. / 00 f !	+/-75 feet	+/-30 feet	+/-70 feet	0	0	1	0
, —									- 1	- 1

		The temperature measured by the CHT (Cylinder Head temperature) probe is the:	temperature within the hottest cylinder, depending on its position in the engine block.	average temperature within the whole set of cylinders.	temperature of the exhaust gases.	temperatur e of the carburator to be monitored when the outside air temperatur e is between -5°C and 10°C.				
1205	22						1	0	0	0
		A transport airplane has to be equipped with an altitude warning device. This system will warn the crew about :	2	1,3,4	1,5	3,4				
		1 - getting close to the preselected altitude, during both climb and descent.								
		2 - getting close to the preselected altitude, during climb only.								
		3 - the loss of altitude during take-off or missed approach.								
		4 - a wrong landing configuration.								
		5 - a variation higher or lower than a preselected altitude.								
1206	22	The combination regrouping the correct statements is:					0	0	1	0
		During the approach, a crew reads on the radio altimeter the value of 650 ft. This is an indication of the true:	height of the aircraft with regard to the runway.	altitude of the aircraft.	height of the lowest wheels with regard to the ground at any time.	height of the aircraft wit h regard to the ground at any time.				
1207	22						0	0	1	0
		Proximity Warning System (GPWS). This system will warn the crew in case of :	2,5	2,3,4,5	2	1,3,4				
		1 - keeping the altitude at a lower level than the one shown in the flight plan entered in the FMS.								
		2 - dangerous ground proximity.								
		3 - loss of altitude during take-off or missed approach.								
		4 - wrong landing configuration.								
1208	22	5 - descent below glidepath, within limits.					0	1	0	
		The turn rate indicator uses a gyroscope:	1-3-4	2-5	1-6	1-3				
		1 - with one degree of freedom.								
		2 - with two degrees of freedom								
		3 - the frame of which is supported by two return springs.								
		4 - the spinning wheel axis of which is parallel to the pitch axis.								
		5 - the spinning wheel axis of which is parallel to the yawing axis.								
1209	22	6 - the spinning wheel axis of which is horizontal.					0	0	0	1

1210	22	In case of accidental closing of an aircraft's left static pressure port (rain, birds), the altimeter:	underreads the altitude.	overreads the altitude in case of a sideslip to the left and displays the correct information during symmetric flight.	overreads the altitude in case of a side-slip to the right and displays the correct information during symmetric flight.	keeps on providing reliable reading in all situations	0	1	0	0
		An aircraft is flying at a 120 kt true airspeed (VV), in order to achieve a rate 1 turn, the pilot will have to bank the aircraft at an angle of:	18°.	12°.	36°.	30°.		0		
1212	22	The yellow sector of the temperature gauge corresponds to:	a frequent operating range.	a forbidden operating range.	an exceptional o perating range.	a normal operating range.		0		
1213	22	The pendulum type detector system of the directional gyro feeds:	a torque motor on the sensitive axis	2 torque motors arranged horizontally	a levelling erection torque motor	a nozzle integral with the outer gimbal ring	0	0	1	
1214	22	The altitude indicated on board an aircraft flying in an atmosphere where all atmosphere layers below the aircraft are warm is:	equal to the standard altitude.	higher than the real altitude.	the same as the real altitude.	lower than the real altitude.		1		
		Mach Trim is a device to compensate for :	weight reduction resulting from fuel consumption during the cruise	backing of the aerodyna mic center at high Mach numbers by moving the elevator to nose-up	the effects of fuel transfer between the main tanks and the tank located in the horizontal tail	the effects of temperatur e variation during a climb or descent at constant Mach				
1215	22	In some configurations, modern aircraft do not respect the regulatory margins between stall and natural buffet.  The warning system supplies the corresponding alarm. The	10%	3%	7%	5%	0	1	0	0
1216	22	required margin related to the stall speed is:					0	0	1	0
		The Mach number is :	the ratio of the aircraft true airspeed to the sonic velocity at the altitude considered	a direct function of temperature ; it varies in proportion to the square root of the absolute temperature	the ratio of the indicated airspeed to the sonic velocity at the altitude considered	the ratio of the aircraft convention nal airspeed to the sonic velocity at the altitude considered				
1217	22	The use of the TCAS (Traffic Collision Avoidance System)	both the	the replies	the echos	th e e chos	1	0	0	0
1218	22	for avoiding an aircraft in flight is now general. TCAS uses for its operation:	replies from the transponders of other aircraft and the ground-base d radar echoes	from the transponders of other aircraft	from the ground air traffic control radar system	of collision av oidance radar system especially installed on board	0	1	0	
1210			1	I	l		ت			_

		Different pressure sensors are used according to the intensity of the pressure measured (low, medium or high)	2,1,3	3, 1,2	1,2,3	3,2,1				
		Classify the following sensors by order of increasing								
		pressure for which they are suitable:								
		1- bellows type								
1219	22	2- Bourdon tube type					0	1	0	0
		The measurement of the turbine temperature or of the EGT (Exhaust Gas Temperature) is carried out at the:	combustion chamber	combustion chamber	high pressure chamber	high pressure				
1220	22		outlet.	intake.	intake.	turbine outlet.	0	0	0	1
1220		The sensors used to measure the exhaust gas temperature	th ermo couple	based on	based on	capacitors	Ť	Ů	Ť	Ħ
		on an aircraft equipped with turbojets are:	s.	metallic parts whose	metallic conductors	whose capacity				
				expansion/co	whose	varies				
				ntraction is measured.	resistance increases	proportion nally with				
					linearly with temperature.	temperatur e.				
					temperature.	<b>G.</b>				
1221	22	The aircraft radio equipment which emits on a frequency of	weather	primary radar.	radio	high	1	0	0	0
		4400 MHz is the:	radar.		altimeter.	altitu de				
1222	22					radio altimeter.	 0	0	1	0
		A rate integrating gyro is a detecting element used in	1, 4.	1, 2, 3, 4, 5.	2,3,5.	2,3,4.				
		1. An inertial attitude unit								
		2. An automatic pilot								
		3. A stabilizing servo system								
1223	22	4. An inertial navigation system					1	0	0	0
		In An Air Data Computer (ADC), aeroplane altitude is calculated from:	The difference bet	Measurement of outside air	Measurement of elapsed	Measurem ent of				
			ween absolute and	temperature (OAT)	time for a radio signal	absolute barometric				
			dynamic	(OAT)	transmitted	pressure				
			pressure at the fuselage		to the ground surface and	from a static				
					back	source on				
						the fuselage				
1224	22	The gimbal error of the directional gyro is due to the effect of	a bank or	an apparent	to o slow	the	0	0	0	1
		:	1	weight and	precession	aircraft's				
			of the aircraft	an apparent vertical	on the horizontal	track over the earth				
1225	22				gimbal ring		1	0	0	0
		An Air Data Computer (ADC) :	Measures	Transforms	ls an auxiliary	Converts	Н			$\dashv$
			position error in the static	air data measurement	systemthat provides	air data measurem				
			system and	s into electric	altitude	ents given				
				impulses driving servo	information in the event	by ATC from the				
			on to ATC to provide	motors in instruments	that the static source	ground in order to				
			correct	Instruments	is blocked	provide				
			altitude reporting			correct altitude				
						and				
						speed info rmation				
1226	22						0	1	0	0
		The directional gyro axis spins about the local vertical by		in the latitude	on the equator					
1227	22	15°/hour :	30°	45°		North pole	0	0	0	1
		The directional gyro axis no longer spins about the local vertical when it is located:	on the equator	in the latitude 30°	in the latitude 45°	on the North pole				
1228	22						1	0	0	0

		A gravity type erector is used in a vertical gyro device to	an artificial	a directional	a turn	а				
		correct errors on:	horizon	gyro unit	indicator	gyromagn				l
						etic				l
1229	22					indicator	1	0	0	0
		When an aircraft has turned 90 degrees with a constant	too much	too much	too much	attitude				l
		attitude and bank, the pilot observes the following on a	nose-up and	nose-up and	nose-up and	and bank				l
1230	22	classic artificial horizon:	bank correct	bank too high	bank too low	correct	0	0	1	0
1200	_	When an aircraft has turned 360 degrees with a constant	too much	to o much	at titude and	to o much	H	Ť	Н	Ť
		attitude and bank, the pilot observes the following on a	nose-up and	nose-up and	bank correct	nose-up				l
		classic artificial horizon:	bank correct	bank too high		and bank				l
1231	22					to o low	0	0	1	0
		When an aircraft has turned 270 degrees with a constant	to o much	too much	at titude and	too much				l
		attitude and bank, the pilot observes the following on a	nose-up and	nose-up and	bank correct.	nose-up				l
4 222	22	classic artificial horizon:	bank too high.	bank too low.		and bank		0	ارا	_
1232	22	T 100 1 101 100 1				correct.	Н	U	0	Ľ
		The pressure altitude is the altitude corresponding:	in standard	in ambiant	in standard	in ambiant				
			at mosphere, to the	at mosphere, to the	at mosphere, to the	at mospher e, to the				
			reference	pressure Ps	pressure Ps	reference				
			pressure Ps	prevailing at	prevailing at	pressure				
				this point	this point	Ps				
				lane point	and point	"				l
1233	22	<del></del>					0	0	1	0
		The response time of a vertical speed detector may be	correction	bimettalic strip	return spring	second				l
		increased by adding a:	based on an accelerometer			calibrated port				
			sensor.			poit				l
1234	22						1	0	0	0
		The density altitude is:	the altitude of	the	the pressure	the	П		П	П
			the standard	temperature	altitude	pressure				l
			atmosphere	altitude	corrected for	altitude				
			on which the	corrected for	the relative	corrected				
			density is	the difference	density	forthe				l
			equal to the	between the	prevailing at	density of				
			actual	real	this point	air at this				
			density of	temperature		point				l
			I	and the						
			re	standard						
				temperature						
1235	22						1	0	0	0
		The error in altimeter readings caused by the variation of the	position	barometric	instrument	hysteresis				
		static pressure near the source is known as:	pressure	error.	error.	effect.			0	
1236	22	Under normal operating conditions, when an aircraft is in a	error. 3,4.	2,4.	1, 3.	1,2.	H		Щ	
		banked tum, the rate-of-tum indicator is a valuable	J <sup>0</sup> , <del>-</del> .	۷,۳۰	,,5.	ر · , د.				l
		gyroscopic flight control instrument; when it is associated								
		with an attitude indicator it indicates:								
										l
		1. the angular velocity of the aircraft about the yaw axis								
		2. The bank of the aircraft								
		3. The direction of the aircraft turn								
		4. The angular velocity of the aircraft about the real vertical								
, '										
1237	22						0	0	1	(

1238	22	The signal supplied by a transmitter fitted with a magnetic sensor, connected to an RPM indicator is:	a three-phase v oltage frequency varies with the RPM; the indicator is provided with a motor which drives a magnetic tachometer	a DC voltage varying with the RPM; the indicator is a simple voltmeter with a rev/min. scale	an AC voltage varyi ng with the RPM; the indicator rectifies the signal via a diode bridge and is provided with a voltmet er	an AC voltage, the frequency of which varies with the RPM; the indicator converts the signal into square pulses which are then counted	0	0	0	1
1239		The TCAS II data display devices can be in the form of:  1- a specific dedicated screen  2- a screen combined with the weather radar  3- a variometer represented on a liquid crystal screen which allows the display of Traffic Advisory (TA) and Resolution Advisory (RA)  4- an ERS (Electronic Flight Instrument System) screen	1, 2 and 3.	3 and 4.	1 and 3.	1, 2, 3 and 4.	0	0	0	1
1240	22	In a non-pressurized aircraft, if one or several static pressure ports are damaged, there is an ultimate emergency means for restoring a practically correct static pressure intake:	breaking the rate-of-climb indicator glass window	slightly opening a window to restore the ambient pressure in the cabin	descending as much as possible in order to fly at a pressure as close to 1013.25 hPa as possible	calculating the ambient static pressure, allowing for the altitude and Q NH and adjusting the instrument s		0		
	22	Today's airspeed indicators (calibrated to the Saint-Venant formula), indicate, in the absence of static (and instrumental) error:	The airspeed, whateverthe altitude	The equivalent airspeed, in all cases	The conventional airspeed (CAS) in all cases	The true airspeed		0		
	22	The principle of the TCAS (Traffic Collision Avoidance Systems) is based on the use of :  In the event of a conflict, the TCAS (Traffic Collision	F.M.S. (Flight Management System) tum left/turn	air traffic control radar systems too low terrain	transponders fitted in the aircraft	airbome weather radar system climb/desc		0		
	22	Avoidance System) will give information such as :  The TCAS (Traffic Collision Avoidance System) gives avoidance resolutions :	right in horizontal and vertical planes	based on speed control	only in the vertical plane	only in the horizontal plane		0		
1245	22	Concerning the TCAS (Traffic Collision Avoidance System):	Resolution Advisory (RA) must not be followed without obtaining clearance from ATC	No protection is available against aircraft not equipped with a serviceable SSR transponder	In one of the system modes, the warning: "TOO LOW TERRAIN" is generated	In one of the system mo des, the warning: "PULL UP" is generated	0			0

		The operation of the GPWS (Ground Proximity Warning System) is governed by laws taking the aircraft height into account as well as:	2,3	1,3	1,2,4	2,4				
		1- the descent rate								
		2- the climb rate								
1246	22	3- the aircraft configuration					0	1	0	0
		The indication of a fuel float gauge varies with:	4	1,2	1, 2,4	1, 2, 3, 4				
		1- aircraft attitude								
		2- accelerations								
1247	22	3- atmospheric pressure	4.00	1.00.1	004	4.4	0	0	1	0
		The transmitter of RPM indicator may consist of :	1,2,3	1,2,3,4	2,3,4	1,4				
		1- a magnetic sensor supplying an induced AC voltage								
		2- a DC generator supplying a DC voltage								
		3- a single-phase AC generator supplying an AC voltage								
1248	22	4- a three-phase AC generator supplying a three-phase voltage					0	1	0	0
1240		The yaw damper indicator supplies the pilot with information	yaw damper	rudd er	yaw damper	rudd er	H	Ė	H	$\dashv$
		regarding the:	action on the rudder	displacement by the	action only on the ground	position				
1040	00			rudder pedals	S. T. W. T. G. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. T. W. W. T. W. W. T. W. W. W		,		0	
1249	22	A vibration indicator receives a signal from different sensors	vibration	vibration	acceleration	vibration	_	0	U	
		(accelerometers). It indicates the :	period expressed in	amplitude at a given	measured by the sensors,	frequency expressed				
			seconds	frequency	expressed in	in Hz				
1250	22				g		0	1	0	0
		The altitude indicated on board an aircraft flying in an	equal to the	lower than	the same as	higher				
		atmosphere where all the atmosphere layers below the aircraft are cold is:	standard altitude.	the real altitude.	the real altitude.	than the real				
1251	22	The signal supplied by a transmitter fitted with a 2 phase AC	o DC voltago	an AC	an AC	altitude.	0	1	0	0
		The signal supplied by a transmitter fitted with a 3-phase AC generator, connected to RPM indicator, is:	a DC voltage varying with	voltage, the		three-phas				
			the RPM; the indicator is a	frequency of which varies	ng with the RPM; the	e voltage, the				
			plain	with the	indicator	frequency				
			voltmeter with a	RPM; the indicator	rectifies the signal via a	of which varies				
			rev/min.	converts the	diode bridge	with the				
			scale	signal into square	and is provided	RPM; the indicator				
				pulses which	with a	is provided				
				are then counted	voltmeter	with a motor				
						which drives a				
						magnetic				
						tachomete r				
4050							$\left  \begin{array}{c} 1 \\ 1 \end{array} \right $			
1252	22	Given:	Tt = Ts(1-0.2	Tt = Ts(1+0.2	Tt =	Tt=	U	U	0	1
		- Ts the static temperature (SAT)	M²)	Kr.M²) `	Ts/(1+0.2 Kr.	Ts(1+0.2				
		- Tt the total temperature (TAT)			M²)	M²)				
		- Kr the recovery coefficient								
1253	22	·			051611	5.45	0	0	0	1
		The TCAS (Traffic Collision Avoidance System) is a proximity alarm system which detects a "traffic" when the	serviceable SSR	serviceable weather	SELCAL system	DME system				
1254	22	conflicting traffic is equipped with a:	transponder	radar			1	n	0	0
1.204			I .	I	I	I	<u>'</u>		Ľ	لٽ

1255	22	When being engaged, and without selecting a particular mode, an automatic pilot enables:	a constant speed on track, wings horizontal.	all aeroplane piloting and guidance functions except maintaining radio-navigati on course lines.	aeroplane stabilisation with attitude hold or maintaining vertical speed and possibly automatic trim.	aeroplane piloting and guida nce functions.	0	0	1	0
1256	22	On an autopilot coupled approach, GO AROUND mode is engaged:	by the pilot pushing a button located on the throttles.	by the pilot selecting G.A. mode on the thrust computer control panel.	automatically in case of an autopilot or flight director alarm.	if the aircraft reaches the decision height selected on the radio altimeter at a higher speed than the one selected.			0	
		Mode "Localizer ARM" active on Flight Director means:	Localizer ALARM, making localizer approach not authorized	Coupling has occurred and system provides control data to capture the centerline	Localizer is armed and coupling will occur when flag warning disappears	System is armed for localizer approach and coupling will occur upon capturing center line				
1257	22	A Stand-by-horizon or emergency attitude indicator:	Is automatically connected to the primary vertical gyro if the alternator fails	Is fully independent of external energy resources in an emergency si tuation	Only works of there is a complete electrical failure	Contains its own separate gyro	0		0	1
1259	22	If an aircraft is equipped with one altimeter which is compensated for position error and another altimeter which is not; and all other factors being equal	the non-compens at ed altimeter	There will be no difference between them if the air data computer (ADC) is functioning no mally	ATC will get an erroneous alti tude report SSR	At high speed, the non-co mpen sated altimeter will indicate a higher altitude			0	
	22	For most radio altimeters, when a system error occurs during approach the	Height indication is removed	DH lamp flashes red and the audio signal sounds	DH lamp flashes red	Audio warning signal sounds			0	

		Indication of Mach number is obtained from:	Indicated speed and altitude using a speed indicator equipped with an altimeter type a neroid	An ordinary airspeed indicator scaled for Mach numbers instead of knots	A kind of echo sound comparing velocity of sound with indicated speed	Indicated speed (IAS) compared with true air speed (TAS) from the air data computer				
1261	22	The altimeter consists of one or several aneroid capsules located in a sealed casing.	(i) static pressure (ii)	(i) vacuum (or a very	(i) static pressure at	(i) total pressure	1	0	0	0
4.000	00	The pressures in the aneroid capsule (i) and casing (ii) are respectively:	total pressure	low pressure) (ii) static pressure	time t (ii) static pressure at	(ii) static pressure				
1262	22	In low altitude radio altimeters, the height measurement (above the ground) is based upon:	a triangular amplitude modulation wave, for which modulation phase shift between transmitted and received waves after ground reflection is measured.	a frequency modulation wave, for which the frequency variation between the transmitted wave and the received wave after ground reflection is measured.	time t - t a pulse transmission, for which time between tran smission and reception is measured on a circular scanning screen.	a wave transmissi on, for which the frequency shift by DOPPLER effect after groun d reflection is measured.	0	1	0	
1263	22	On board an aircraft the altitude is measured from the:	standard altitude	pressure altitude	density altitude	temperatur e altitude	0		0	
1264	22	The limits of the yellow scale of an airspeed indicator are:	VLO for the lower limit and VNE for the upper limit	VLE for the lower limit and VNE for the upper limit	VFE for the lower limit and VNE for the upper limit	VNO for the lower limit and VNE for the upper limit	0			
1265	22	During a straight and uniform climb, the pilot maintains a constant calibrated airspeed (CAS):	The Mach number increases and the true airspeed (TAS) increases.	The Mach number increases and the true airspeed (TAS) is constant.	The Mach number is constant and the true airspeed (TAS) is constant.	The Mach number is constant and the true airspeed (TAS) decreases.	0			
1266	22	The RPM indicator (or tachometer) of a piston engine can	rating is the	propeller	propoller	rating is	1	0	0	0
1267		include a small red arc within the arc normally used (green arc)  In the RPM range corresponding to this small red arc the:	minimum usable in cruise	efficency is minimum at this rating	generates vibration, continuous rating is forbidden	the maxim um possible in continuo us mode	0	0	1	0
120/		The airspeed indicator of a twin-engined aircraft comprises different sectors and color marks. The blue line corresponds to the :	maximum speed in operations, or VMO	optimum climbing speed with one engine inoperative,	speed not to be exceeded, or VNE	minimum control speed, or VMC	0	5	-	<u> </u>
1268	22			or Vy			0	1	0	0

		The interception of a localizer beam by the autopilot takes place:	according to an interception versus radio deviation law	according to an interception versus range and angular	at a constant heading	at a constant magnetic course				
1269	22	The "heading hold" mode is selected on the flight director (FD) with a course to steer of 180°. Your aircraft holds a heading of 160°. The vertical bar of the FD:	can not be cen tered	is centered if the aircraft is on optimum path to join heading 180°	is centered if the aircraft has a starboard drift of 20°	is centered if the aircraft has a port drift of 20°	0	0	1	0
1270	22	The calibrated airspeed (CAS) or Mach holding mode is carried out by:	2 and 4.	1 and 3.	2 and 3.	1 and 4.	0	1	0	0
		1- the autopilot pitch channel in the climb mode at a constant calibrated airspeed (CAS) or Mach number 2- the autothrottles in the climb mode at a constant calibrated airspeed (CAS) or Mach number 3- the autopilot pitch channel in the altitude or glide path holding mode 4- the autothrottles in the altitude or glide path holding mode								
1271	22						0	0	0	1
		A gyromagnetic compass or heading reference unit is an assembly which always consists of :	2,5	1,3,5	2,3,5	1,4				
		1- a directional gyro								
		2- a vertical axis gyro								
		3- an earth's magnetic field detector								
	22	A radio altimeter can be defined as a:	ground radio aid used to measure the true height of the aircraft	ground radio aid used to measure the true altitude of the aircraft	self-contained on-board aid used to measure the true height of the aircraft	self-contain ed on-board aid used to measur e the true altitude of the aircraft	0			
1274	22	The limits of the white scale of an airspeed indicator are:	VSI for the lower limit and VFE for the upper limit	VSO for the lower limit and VLE for the upper limit	VSI for the lower limit and VLE for the upper limit	VSO for the lower limit and VFE for the upper limit	0	0	0	1
12/4		When an automatic landing is interrupted by a go-around:	1, 3 and 4.	1, 2 and 3.	1, 2 and 5.	1, 4 and 5.		Ť	Ů	Ť
		1- the autothrottle reacts immediately upon the pilot action on the TO/GA (Take-off/Go-around) switch in order to recover the maximum thrust  2- the autopilot monitors the climb and the rotation of the airplane  3- the autopilot retracts the landing gear and reduces the flap deflection in order to reduce the drag  4- the pilot performs the climb and the rotation of the airplane  5- the pilot retracts the landing gear and reduces the flap deflection in order to reduce the drag								
1275	22						0	0	1	0

		The velocity maximum operating (V.M.O.) is a speed	true airspeed	computed	calibrated	equivalent		T	$\sqcap$	T	┑
		expressed in:	(TAS).	airspeed	airspeed	airspe ed					
1276	22			(COAS).	(CAS).	(EAS).		0	0	1	0
		A failed RMI rose is locked on 0.90° and the ADF pointer	225°.	135°.	Impossible to	315°.				٦	٦
		indicates 225°. The relative bearing to the station is:			read, due to failure RMI.						
1277	22							0	1	0	
		An airplane is in steady descent. The autothrottle maintains a constant Mach number. If the total temperature remains constant, the calibrated airspeed:	remains constant.	decreases if the static temperature is lower than the standard temperature, increases if above.	increases.	decreases.					
1278	22							0	0	1	0
4.070	8	A ground proximity warning system (GPWS), when mandatorily installed on board an aircraft, must in all cases generate:	a sound alarm or a visual alarm	a sound and visual alarm	a visual alarm to which a sound alarm can be	at least one sound alarm to which a visual alarm can be added					
1279	22	The essential components of a flight director are:	2,4	2,3	1,4	1,2		0	0	0	1
1280	22	1- a computer 2- an automatic pilot 3- an autothrottle	<b>2</b> , <b>7</b>	2,3	1,7	1,2		0	0	1	0
1200		A pilot has to carry out a single-pilot IFR flight on a light	heading	altitude	heading, to	heading		Ť	Ť	Ħ	Ť
1281	22	twin-engined aircraft for cargo transport. The purpose of the automatic pilot is at least to hold the:			hold the altitude and to have a radio axis tracking function	and to hold the altitude		0	0	0	1
		An automatic landing is carried out when the automatic pilot:	and the	ensures a	and the	and the		$\exists$		┪	ヿ
			autothrottle ensure a correct final approach, at least up to ground roll	correct final approach, at least up to ground roll while the human pilot controls the power	autothrottle ensure a correct final approach, at least up to flare-out	autothrottl e ensure a correct final appro ach, at least up to flare-out while the human pilot controls the power					
1282	22							1	0	0	0
		Considering the maximum operational Mach number (MMO) and the maximum operational speed (VMO), the captain of a pressurized aircraft begins his descent from a high flight level. In order to meet his scheduled time of arrival, he decides to use the maximum ground speed at any time of the descent. He will be limited:	initially by theVMO, then by the MMO below a certain flight level	by the MMO	by the VMO in still air	initially by the MMO, then by the VMO below a certain flight level					
1283	22	The pressure measured at the forward facing orifice of a	total processo	dynamic	total pressure.	static		0	0	0	1
		pitot tube is the :	total pressure plus static	pressure.	iotai piessure.	pressure.					
1284	22		pressure.					ا	0	1	٥
			ı	ı	1	<u> </u>	!		1	_	

		An airplane is in steady cruise at flight level 290. The	increases.	decreases.	decreases if	remains				
		autothrottle maintains a constant Mach number. If the total			the outside	constant.				
		temperature decreases, the calibrated airspeed:			temperature					
					is lower than the standard					
					temperature,					
					increases if					
					higher.					
1285	22						0	0	0	1
		An airplane is in steady cruise at flight level 290. The	decreases.	increases if	remains	increases.				
		autothrottle maintains a constant Mach number. If the total temperature increases, the calibrated airspeed:		the static temperature	constant.					
		temperature increases, the campiated airspeed.		is higher						
				than the						
				standard						
				temperature,						
				decreases if						
1286	22			lower.			0	0	1	0
		The Ground Proximity Warning System (GPWS) generates	WHOOP	DONT SINK	DONT SINK	DON'T				П
		the following sound signal or signals when the aircraft is	WHOOP	always	followed by	SINK				
		sinking after a take-off or a go-around:	PULL UP repetitive	followed by WHOOP	WHOOP WHOOP	repetitive only				
			only	WHOOP	PULL UP if	Offiny				
				PULL UP	the sink rate					
					overshoots a					
					second level					
1287	22						0	0	0	1
		The basis properties of a gyroscope are :	3,4	2,5	2,3,5	1,3,5				
		1. The gyro's weight.								
		2. The rigidity in space.								
1288	22	3. The inertia.					0	1	0	0
		The static pressure error of the static vent on which the	static	Mach number		aircraft				T
		altimeter is connected varies substantially with the:	temperature	of the aircraft	of the	altitude				
1289	22				an eroid caps ule		0	1	0	0
		The purpose of the vibrating device of an altimeter is to:	allow	reduce the	reduce the	inform the				П
			damping of	hysteresis	effect of	crew of a				
			the measurement	effect	friction in the linkages	failure of the				
			in the unit		ure irrikages	instrument				
4.000										
1290	22	The hysteresis error of an altimeter varies substantially with	time passed	mach number	aircraft	static	0	0	1	U
		the:	at a given	of the aircraft.	altitude.	temperatur				
1291	22		altitude.			e.	1	0	١	١
1231		VLE is the maximum :	spe ed	flight speed	speed at	speed with	_	_	۲	$\dashv$
			authorized in	with landing	which the	flaps				
			flight	gear down	landing gear	ext end ed				
					can be operated	in a given position				
					with full	Position				
1292	22				safety			1	٥	
1 292		VLO is the maximum :	speed at	flight speed	speed with	cruising	U	1	<u> </u>	$\dashv$
			which the	with landing	flaps	speed not				
			landing gear	gear down.	extended in	to be				
			can be		a given	exceeded				
			operated with full		position.	except in still air				
			saf ety.			with cautio				
1293	22					n.	1	0	0	0
							 			_

		VNE is the maximum speed:	flight controls can	with flaps extended in landing position	which must never be exceeded	not to be exceeded except in still air and with				
		VNO is the maximum speed :	never be	at which the flight controls can be fully deflected.	with flaps extended in landing position.	caution not to be exceeded except in still air and with		0		
		The vertical speed indicator of an aircraft flying at a true airspeed of 100 kt, in a descent with a slope of 3 degrees,	- 300 ft/min	- 150 ft/min	- 250 ft/min	caution. - 500 ft/min.		0		
1296		indicates: The advantages provided by an air data computer to indicate the altitude are:	1,2,3,4	2,3,4	1,2,3	1, 3,4	0	0	0	1
		Position/pressure error correction     Hysteresis error correction								
1297	22	Remote data transmission capability     Capability of operating as a conventional altimeter in the					0	0	0	1
1298		The calibrated airspeed (CAS) is obtained by applying to the indicated airspeed (IAS) :	y and density	an instrument and position/pres sure error correction.	an antenna and compressibilit y correction.	and instrument and density correction.	0	1	0	0
		The limits of the green scale of an airspeed indicator are :	and VNE for the upper	VS1 for the lower limit and VLO for the upper limit	VS1 for the lower limit and VNO for the upper limit	VS0 for the lower limit and VNO for the upper limit				
1299		Among the flight control instruments, the artificial horizon plays an essential part. It uses a gyroscope with:  Note: in this question, the degrees of freedom of a gyro are determined by the number of gimbal rings it comprises.	of freedom, whose axis is oriented and continously maintained to local vertical by an automatic erecting	two degrees of freedom, whose horizontal axis correspondin g to a reference direction is maintained in a horizontal plane by an automatic erecting system	one degree of freedom, whose horizontal axis is maintained in a horizontal plane by an automatic erecting system	one degree of freedom, whose vertical axis oriented in the direction of the real vertical to the location is maintained in this direction by an automatic erecting system	0	0	1	0
1300	22	With a pitot probe blocked due to ice build up, the aircraft	increasing	fluctuating	decreasing	constant	1	0	0	0
1301		airspeed indicator will indicate in descent a:	speed.	speed.	speed.	speed.	0	0	1	0

		The indication of the directional gyro as an on-board instrument are valid only for a short period of time. The causes of this inaccuracy are:	1, 3,4	1, 2, 3, 4, 5, 6	2,5,6	1, 3,4,6				
		The earth's rotation								
		2. The longitudinal acceleration								
		The aircraft's motion over the surface of the earth.								
		4. The mechanical defects of the gyro								
1302	22	F. The grande weight					0	0	0	1
1303	22	With a constant weight, irrespective of the airfield altitude, an aircraft always takes off at the same:	calibrated airspeed.	ground speed.	true airspeed.	equivalent airspeed.	1	0	0	0
1304	22	During a climb after take-off from a contaminated runway, if the total pressure probe of the airspeed indicator is blocked, the pilot finds that indicated airspeed:	decreases abruptly towards zero	increases steadily	increases abruptly towards VNE	decreases stadily	0	1	0	0
		The mach number is the:	indicated airspeed (IAS) divided by the local speed of sound	equivalent airspeed (EAS) divided by the local speed of sound	true airspeed (TAS) divided by the local speed of sound	corrected airspeed (CAS) divided by the local speed of sound				
1305	22	The existing of the Mark indicates in board and the	(D) - D-) (-	(D) D-\(-)	Di ta Da	(D) D-) (-	0	0	1	0
1306	22	The principle of the Mach indicator is based on the computation of the ratio:	(Pt + Ps) to Ps	(Pt - Ps) to Ps	Pt to Ps	(Pt - Ps) to Pt	0	1	0	0
1307	22	After an aircraft has passed through a volcanic cloud which has blocked the total pressure probe inlet of the airspeed indicator, the pilot begins a stabilized descent and finds that the indicated airspeed:	increases steadily	decreases abruptly towards zero	decreases steadily	increases abruptly towards VNE	0	0	1	0
		The reading of a Mach indicator is independent of:	the outside temperature	the static pressure	the total pressure	the differential pressure measurem ent				
1308	22	<del>-</del>		4 10	1 0 0 1	4 15	1	0	0	0
		The calculator combined with the stick shaker system of a modern transport airplane receives information about the:	1, 2, 3 and 4.	1 and 3.	1, 2, 3, 4 and 5.	1 and 5.				
		1- angle of attack								
		2- engine R.P.M.								
		3- configuration								
		4- pitch and bank attitude								
1309	22	5- sideslip A Ground Proximity Warning System (GPWS) generates	1, 2, 3, 5 and	1, 2, 3, 4 and	1,2 and 4.	3, 4, 5 and	0	1	0	0
		automatically a distinct warning to the flight crew with aural and/or light warning signals in the case of:	6.	5.	.,, z uiu 7.	6.				
		1- an excessive rate of descent with respect to terrain								
		2- a dangerous proximity to the ground								
		3- a loss of altitude following take-off or go-around								
		4- an abnormal flight attitude								
		5- an abnormal landing configuration								
		6- an abnormal deviation below ILS glide slope								
1310	22		<u> </u>			<u> </u>	1	0	0	0

1311	22	A VMO-MMO warning device consists of an alarm connected to :	aneroid capsule and an airspeed sensor subjected to dynamic pressure.	a barometric aneroid capsule and an airspeed sensor subjected to a static pressure.	a barometric aneroid capsule subjected to a static pressure and an airspeed sensor subjected to a dynamic pressure.	a barometic aneroid capsule subjected to a dynamic pressure and an airspeed sensor subjected to a static pressure.	0	0	1	0
1312	22	The characteristics of the directional gyro (DG) used in a gyro stabilised compass system are:	freedom, whose vertical axis, aligned with the real vertical to the location is maintained in this direction by an automatic	two degrees of freedom, whose horizontal axis correspondin g to the reference direction is maintained in the horizontal plane by an automatic erecting system.	two degrees of freedom, whose axis aligned with the vertical to the location is maintained in this direction by an erecting system.	one degree of freedom, whose horizontal axis is maintained in the horizontal plane by an automa tic erecting system.	0	1	0	0
		The electromotive force of a thermocouple is not modified if one or several intermediate metals are inserted in the circuit provided that:	these metals are maintained at a temperature higher than that of the cold source.	these metals are maintained at a temperature lower than that of the cold source.	contact points are maintained at equal temperature between these different	these metals are not the same as those constitut in g the thermocou				
	22	An aeroplane is in a steady climb. The autothrottle maintains a constant Mach number. If the total temperature remains constant, the calibrated airspeed:	decreases if the static temperature is lower than the standard temperature, increases if higher.	decreases.	metals. increases.	ple. remains constant.		1		
		A "TCAS II" (Traffic Collision Avoidance System) provides:	relative position and possibly an indication of a collision avoidance manoeuvre within both	the intruder relative position and possibly an indication of a collision avoidance manoeuvre within the horizontal plane only.	the intruder relative position and possibly an indication of a collision avoidance manoeuvre within the vertical plane only.	a simple intruding airplane proximity warning.				
1315	22	A "Daurdon Tuko" is used in		vibration	am aka	tu do in o	0	0	1	0
1316	22	A "Bourdon Tube" is used in:	pressure sensors	vibration detectors	smoke detectors	turbine temperatur e probes	1	0	0	0

1317	22	The heading read on the dial of a directional gyro is subject to errors, one of which is due to the movement of the aircraft.  This error	is at its greatest value when the aircraft follows a meridional track	shows itself by an apparent rotation of the horizontal axis of the gyroscope which seems to turn at 15° per hour to the right in the northem hemisphere	is dependent on the ground speed of the aircraft, its true track and the average latitude of the flight	is, in spite of this, insignifica nt and may be ne glected	0	0	1	0
1318	22	A closed loop control system in which a small power input controls a much larger power output in a strictly proportionate manner is known as:	an amplifier.	a feedback control circuit.	an autopilot.	a servomec hanism.	0	0	0	1
		(Use the appendix to answer this question)	1	2	3	4				
1319	22	The diagram which shows a 40° left bank and 15° nose					1	0	0	0
		The operating principle of the vertical speed indicator (VSI)	Kinetic	Static	Dynamic	Total				
1320	22	is based on the measurement of the rate of change of:	pressure	pressure	pressure	pressure	0	1	0	0
		When turning onto a northerly heading the rose of a magnetic compass tends to "undershoot;" when turning onto a southerly heading it tends to "overshoot":  1) these compass indications are less reliable in the northern hemisphere than in the southern hemisphere.	2, 3, and 4.	1 and 3.	2 and 3.	1, 2, and 4.				
1321	22	<ul> <li>2) these compass oscillations following a lateral gust are not identical if the aircraft is heading north or south.</li> <li>3) this behaviour is due to the mechanical construction of the compass.</li> <li>4) this behaviour is a symptom of a badly swung compass.</li> </ul>					0	0	1	0
4.000	8	A turn indicator is an instrument which indicates rate of turn.  Rate of turn depends upon:  1: bank angle 2: aeroplane speed 3: aeroplane weight	1, 2, and 3.	1 and 2.	1 and 3.	2 and 3.				
1322	22	The pressure probe used to measure the pressure of a low	an aneroid	a bellows	a Bourdon	а	0	1	0	$\stackrel{\circ}{\dashv}$
1323	22	pressure fuel pump is:	capsule.	sensor.	tube.	differential capsule.	1	0	0	0
1324	22	The probe used to measure the air intake pressure of a gas turbine engined powerplant is:	a differential capsule.	a Bourdon tube.	a bellows sensor.	an aneroid capsule.	0	0	0	1
		The advantages of an electrical induction tachometer are:	1, 3, 4.	1, 2, 3, 4.	2, 3, 4.	1, 2, 4.	П	П		$\exists$
		1- the display is not sensitive to line resistance 2- the measurement is independent of aircraft power supply 3- the measurement is independent of temperature variations 4- the option to use without restriction several indicators connected in parallel to a single transmitter								
1325	22	The combination regrouping all the correct statements is:					0	0	0	1

		A millivoltmeter measuring the electromotive force between	cold junction	hot junction	cold junction	hot				
		the "hot junction" and the "cold junction" of a thermocouple	is maintained a	is maintained	is maintained at	junction is				
		can be directly graduated in temperature values provided that the temperature of the:	maintained c onstant.	constant.	maintained at 15 °C.	maintained at 15 °C.				
4.000	00	·								
1326	22	Compared with a conventional gyro, a laser gyro:	consumes a	has a longer	is influenced	has a fairly	1	0	0	4
		Compared with a conventional gyro, a laser gyro.		life cycle	by	long				
					temperature	starting				
1327	22					cycle	0	1	0	0
		Among the following engine instruments, the one operating	oil pressure	fuel pressure	oil	manifold		1		┪
4 200	20	with an aneroid pressure diaphragm is the :	gauge.	gauge.	thermometer.	pressure			ړ	
1328	22	Heading information from the gyromagnetic compass flux	amplifier.	error detector.	erecting	gauge. heading	0	0	4	4
1329	22	gate is transmitted to the :	априног.	citor detector.	system.	indicator.	0	1	0	0
		The principle of capacitor gauges is based on:		the variation	the variation	the current				
			' '	of flow and torque	in capacity of a condensor	variation in a				
			measurement		with the	Wheaston				
			exercised on	a supply line	nature of the	e bridge				
			the sensor		dielectric					
1330	22						0	0	1	0
		A paddle-wheel placed in a the fuel circuit of a gas turbine engine initially measures:	volumetric flow by a	mass flow by a tally of the	volumetric flow by	mass flow				
		orgine illuary illeasures.	tally of the	impulses	measure of a	by measure				
			impulses		voltage	of a				
					proportional	voltage				
					to the rotational	proportion al to the				
					speed	rotational				
1331	22	<del>-</del>				spe ed	1	0	0	<u> </u>
		The purpose of a compass swing is to attempt to coincide the indications of:	compass north and the	compass north and	compass north and	true north and				
			lubber line.	magnetic	true north.	magnetic				
1222	22			north.		north.	0	1	0	
1332	22	The position of a Flight Director command bars:	indicates the	repeats the	enables the	only	$\Box$	┧	4	$\dashv$
			manoeuvers	ADI and HSI	measurement	displays				
			to execute,	information	of deviation	informatio				
			to achieve or maintain a		from a given position.	n relating to				
			flight			radio-elect				
			situation.			ric				
1333	22					deviation.	1	0	0	0
		In a steep tum, the northerly turning error on a magnetic	equal to 180°	none on a	none on a	equal to		$\dashv$	7	$\dashv$
		compass on the northern hemisphere is:	on a 090°	270° heading	090° heading	180° on a				
			heading in a right turn.	in a left turn.	in a right turn.	270° heading in				
						a right turn.				
1334	22	(Facility and State )					1	0	0	0
		(For this question use appendix)	2	3	4	1				
1335	22	The diagram representing a left turn with insufficient rudder						0	,	ا
1335		is: The advantages of an electric float gauge are:	1, 2, 4	1, 2, 3, 4	1, 3, 4	2, 3, 4	U	۷	<del>'</del>	$\dashv$
		5		, , - ,						
		A construction								
		1- ease of manufacture								
		2- independence of the indication relative to the variations of								
		the aircraft power system if the measurement is made by a ratiometer								
		3- independence of the indication relative to the variations of								
		the aircraft power system if the measurement is made by a galvanometer								
1336	22	4- independence of the indication relative to temperature variations					1	0	0	0

1337	22	The gauge indicating the quantity of fuel measured by a capacity gauging system can be graduated directly in weight units because the dielectric constant of fuel is:	twice that of air and varies directly with density.	the same as that of air and varies directly with density.	twice that of air and varies invers ely with density.	the same as that of air and varies inversely with density.	1	0	0	0
	22	Flight Director Information supplied by an FD computer is presented in the form of command bars on the following instrument:	ADI Attitude Display Indicator.	BDHI Bearing Distance Heading Indicator.	RMI Radio Magnetic Indicator.	HSI Horizontal Situation Indicator.		0		
	22	The main advantage of a ratiometer-type temperature indicator is that it:	is simple.	can operate without an electrical power supply.	is very accurate.	carries out an independe nt measurem ent of the supply voltage.	0	0	0	1
1340	22	Given :  M is the Mach number  To is the static temperature	Ts = Tt.(1+0.2. M <sup>2</sup> )	Ts = Tt.(0.2. M²)	Ts = Tt/( 0.2 M²)	Ts = Tt /(1+0.2. M²)	0	0	0	1
1341	22	Regarding Electronic Instrument System (EFIS):  1- the Navigation Display (ND) displays Flight Director Bars.  2- the altimeter setting is displayed on the PFD (Primary Flight Display).  3- the PFD is the main flying instrument.  4- the FMA (Flight Mode Annunciator) is part of the ND.	1, 2.	2, 3.	3, 4.	1, 4.	0	1	0	0
1342	22	The data supplied by a radio altimeter:	indicates the distance between the ground and the aircraft.	concerns only the decision height.	is used only by the radio altimeter indicator.	is used by the automatic pilot in the altitude hold mode.	1	0	0	0
		The low-altitude radio altimeters used in precision approaches:  1 operate in the 1540-1660 MHz range. 2 are of the pulsed type. 3 are of the frequency modulation type. 4 have an operating range of 0 to 5000 ft.	3, 5	3, 4	2, 3, 4	1, 2, 5				
	22	In low altitude radio altimeters, the reading is zero when main landing gear wheels are on the ground. For this, it is necessary to:	change the display scale in short final, in order to have a precise readout.	compensate residual altitude due to antennas height above the ground and coaxial cables length.	account for signal processing time in the unit and apply a correction factor to the reading.	place the antennas on the bottom of the aeroplane.		0		
1344	22			<u> </u>		<u> </u>	U	0		U

		(For this question use annex 022-10217A)	increase the flight attitude	decrease the flight attitude	increase the flight attitude	decrease the flight				
		After having programmed your flight director, you see that the indications of your ADI (Attitude Director Indicator) are as represented in diagram N°1 of the appended annex. On this instrument, the command bars indicate that you must	until the command bars recentre on	until the command bars recentre on	until the command bars recentre on	attitude until the command bars				
1345	22	bank your airplane to the left and :	the symbolic airplane.	the symbolic airplane.	the horizon.	recentre on the horizon.	1	0	0	0
	22	During deceleration following a landing in a Southerly direction, the magnetic compass will indicate:	an apparent turn to the East.	an apparent turn to the West.	a heading fluctuating about 180°.	no apparent tum.		0		
1010		The principle of detection of a vibration monitoring system is based on the use of:	2 acceleromete rs.	2 high and low frequenc y amplifiers.	2 high and low frequenc y filters.	a frequency converter.				
1347	22	In the Northem hemisphere, during deceleration following a landing in a Westerly direction, the magnetic compass will	an apparent turn to the	an apparent turn to the	no apparent tum.	a heading fluctuating	1	0	0	0
1348	22	indicate:	South.	North.		about 270°.	1	0	0	
		In the Southern hemisphere, during deceleration following a landing in an Easterly direction, the magnetic compass will indicate:	no apparent turn.	a heading fluctuating about 090°.	an apparent turn to the North.	an apparent tum to the South.				
1349	22	The quadrantal deviation of a magnetic compass is corrected by using:	magnetized needles	soft iron pie ces	hard iron pieces	pairs of permanent magnets		0		
	22	The quadrantal deviation of the magnetic compass is due to the action of :	the hard iron pieces influenced by the geomagnetic field	the hard iron pieces influenced by the mild iron pieces	the soft iron pieces influenced by the geomagnetic field	the hard iron ices and the soft iron pieces influenced by the hard iron		0		
		In order to measure temperature the cylinder head temperature (CHT) gauge utilises a:	thermocouple consisting of two dissimilar met als.	wheatstone bridge circuit.	ratiometer circuit.	pieces bourdon tube.				
	22	The yaw damper, which suppresses Dutch roll:	controls the ailerons, with the angular rate about the vertical axis as the input signal.	controls the rudder, with the angular rate about the vertical axis as the input signal.	controls the ailerons, with Mach Number as the input signal.	controls the rudder, wit h Mach Number as the input signal.		0		
	22	A laser gyro consists of:	two moving cavities provided with mirrors	a laser generating two light waves	2 electrodes (anodes+cath odes)	a gyro with 2 degrees of freedom		1		
1354	22	A gravity erector system is used to correct the errors on:	an artificial horizon.	a directional gyro.	a turn indicator.	a gyromagn etic	0	1	U	
1355	22	A pilot wishes to turn right on to a southerly heading with 20°	150°	170°	190°	compass.	1	0	0	0
1256	22	bank at a latitude of 20° North. Using a direct reading compass, in order to achieve this he must stop the turn on an approximate heading of:					0	0	0	
1356	<b></b>		<u> </u>	l	<u> </u>	<u> </u>	Lu	U	U	

		A pilot wishes to turn left on to a southerly heading with 20° bank at a latitude of 20° North. Using a direct reading compass, in order to achieve this he must stop the turn on	190°	160°	200°	170°				
1357	22	an approximate heading of :					0	1	0	0
1358	22	A pilot wishes to turn left on to a northerly heading with 10° bank at a latitude of 50° North. Using a direct reading compass, in order to achieve this he must stop the turn on an approximate heading of:	355°	330°	015°	030°	0	0	0	1
10-0		A pilot wishes to turn right on to a northerly heading with 20° bank at a latitude of 40° North. Using a direct reading compass, in order to achieve this he must stop the turn on to an approximate heading of :	01 0°	330°	350°	030°				
1359	22	An aeroplane is in steady descent. The autothrottle maintains a constant calibrated airspeed. If the total temperature remains constant, the Mach number :	increases if the static temperature is lower than the standard temperature, decreases if higher.	decreases.	increases.	remains constant.	0	1	0	0
1360	22	The purpose of compass swinging is to determine the deviation of a magnetic compass :	on any heading	on a given heading	at any latitude	at a given latitude		1		
1361 1362	22	The compass heading can be derived from the magnetic heading by reference to a:	deviation correction curve	map showing the isogonic lines	compass swinging curve	map showing the isoclinic lines		0		
		The magnetic heading can be derived from the true heading by means of a :	compass swinging curve	map showing the isogonal lines	map showing the isoclinic lines	deviation correction curve				
1363	22	The total air temperature (TAT) is always:	higher than Static Air Temperature (SAT) depending on the Calibrated Air Speed (CAS).	higher lower than Static Air Temperature (SAT) depending on the Calibrated Air Speed (CAS).	higher than Static Air Temperature (SAT) depending on the altitude.	lower than Static Air Temperatu re (SAT) depending on the altitude.		0		
1365	22	The static air temperature (SAT) is:	an absolute temperature expressed in degrees Celsius	a differential temperature expressed in degrees Kelvin	a relative temperature expressed in degrees Celsius	a relative temperatur e expressed in degrees Kelvin		0		
	00	The electronic tachometer sensor is composed of:	the rotor of a single phase A.C. generator.	the rotor of a three-phase A.C. generator.	a not ched whe el rotating in front of an electro-magn	a circular magnet with four poles.				
1366	22	The "Bourdon tube" is used to measure:	a flow rate.	pressure.	et. temperature.	quantity.		0		$\exists$
1367 1368	22	An airbome instrument, equipped with a gyro with 2 degrees of freedom and a horizontal spin axis is:	an artificial horizon	a turn indicator	a fluxgate compass	a directional	0	0	0	
1369	22	When, in flight, the needle and ball of a needle-and-ball indicator are on the left, the aircraft is:	tuming right with too much bank	tuming right with not enough bank	tuming left with too much bank	gyro tuming left with not enough bank		0		
1 308		On the ground, during a left turn, the turn indicator indicates :	needle to the left, ball to	needle in the middle, ball to	needle in the middle, ball to	ne edle to the left,	۷	J	1	$\dashv$
1370	22		the left	the right	the left	ball to the right	0	0	0	1

		On the ground, during a right turn, the turn indicator indicates .	needle in the middle, ball to	needle to the right, ball to	needle to the right, ball to	needle in the				П
			left	left	right	middle, bal				
1371	22					I to right	0	1	0	0
		The rate-of-turn is the:	pitch rate in a tum	change-of-he ading rate of	yaw ratein a tum	aircraft speed in a				
1070	22			the aircraft		tum	١	4	_	
1372	22	At a low bank angle, the measurement of rate-of-turn	angular	yaw rate of	pitch rate of	roll rate of	U	1	0	Н
1373	22	actually consists in measuring the :	velocity of the aircraft	the aircraft	the aircraft	the aircraft	0	1	0	0
		In a Tum-indicator, the measurement of rate-of-tum consists	high bank	high bank	low bank	low bank				П
		for:	angles,in measuring	angles, in measuring	angles, in measuring	angles, in measuring				
			the yaw rate	the roll rate	the yaw rate	the roll rate				
1374	22						0	0	1	0
		In a turn at constant rate, the turn indicator reading is:	proportional to the aircraft	independent to the aircraft	proportional to the aircraft	inversely proportion				
			true airspeed	true airspeed	weight	al to the aircraft				
1375	22					true	١	0	٨	
13/3	22	An airborne instrument, equipped with a gyro with 2 degrees	a directional	an artificial	a turn	airspeed a flux gate	0	0	0	H
1376	22	of freedom and a horizontal spin axis is:	gyro	horizon	indicator	compass	1	0	0	0
		An airbome instrument, equipped with a gyro with 1 degree of freedom and a horizontal spin axis is a:	fluxgate compass	directional	tum indicator	gyromagne tic				
1377	22		,	gyro		compass	0	0	1	0
		At a constant Mach number, the calibrated air speed (CAS):	remains un changed	remains un changed	decreases when the	increases when the				
			when the outside	when the outside	altitude increases	altitude increases				
			temperature	temperature	increases	mor cases				
1378	22		increases	decreases			0	0	1	0
		At a constant calibrated airspeed (CAS), the Mach number :	increases when the	decreases when the	remains un changed	remains un change				П
			altitude	altitude	when the	d when the				
			increases	increases	outside temperature	outside temperatur				
					increases	e decreases				
1379	22						1	0	٥	ارا
10/0		When compared with the volumetric fuel flowmeter, the	temperature.	pressure.	dielectrical	density.	Ė	Ť	Ů	Ĭ
1380	22	mass fuel flowmeter takes into account the fuel:			constant.		0	0	0	1
		The heading reference unit of a three-axis data generator is equipped with a gyro with:	2 degrees of freedom and	2 degrees of freedom and	1 degree of freedom and	1 degree of freedom				
		equipped war a gyro war.	horizontal	vertical spin	horizontal	and				
			spin axis	axis	spin axis	vertical spin axis				
1381	22	When, in flight, the needle of a needle-and-ball indicator is	tuming left	tuming right	tuming right	tuming left	1	0	0	0
		on the left and the ball on the right, the aircraft is:	with too	with not	with too	with not				
			much bank	enough bank	much bank	en ough bank				
1382	22	The operation of the radio altimeter of a modem aircraft is	pulse	а	frequency	amplitude	0	0	0	$\parallel$
		based on:	modulation of the carrier	combination of frequency	modulation of the carrier	modulation of the				
			wave.	modulation	wave.	carrier				
				and pulse modulation.		wave.				
1383	22	A manifold pressure gauge of a piston engine measures:	fuel pressure	vacuum in	absolute	absolute	0	0	1	0
		nt matinion procedure gauge of a pistori engine ineasures.	leaving the	the carburett	pressure in	airpressur				
			carburettor.	or.	intake systemnear	e entering the				
					the inlet valve.	carburettor				
1384	22						0	0	1	0

		The stick shaker calculator receives the following informations:	2, 3	2, 3, 5	1, 2, 3, 4	1, 2, 3, 4, 5, 6				
		1- mass of the airplane								
		2- angle of attack								
		3- wing flap deflection								
		4- position of the landing gear								
1385	22	5- total air temperature					1	0	0	0
		If a manifold pressure gauge consistently registers at mospheric pressure, the cause is probably;	leak in pressure	too high float level.	fuel of too low volatility.	ice in induction				
1386	22	A discretization to the	gauge line.	0.4	0.0	system.	1	0	0	0
		A directional gyro is:	1 - 4	2 - 4	2 - 3	1 -3				
		1- a gyroscope free around two axis								
		•								
		2- a gyroscope free around one axis								
		3- capable of self- orientation around an earth-tied direction								
		4- incapable of self-orientation around an earth-tied direction								
1387	22	Modern low altitude radioaltimeters emit waves in the	HF (High	UHF (Ultra	SHF (Super	VLF (Very	1	0	0	0
		following frequency band:	Frequency).	High	High	Low				
				Frequency).	Frequency).	Frequency ).				
1388	22	T. D				,	0	0	1	0
1389	22	The Primary Flight Display (PFD) displays information dedicated to:	engines and alarms.	systems.	piloting.	weather situation.	0	0	1	0
		(For this question use annex 022-3880A)	real deflection of	offset EPSILON at	pilot command E.	aircraft				
		The block diagram of an auto-pilot is shown in the annex.	the control	the computer	COMMINANU E.	response S.				
		For each control channel (pitch, roll and yaw) the piloting law	surface (BETA	input.						
		is the relationship between the deflection of the control surface commanded by the computer (BETA c) and the:	control							
			surface feedback).							
1390	22	The Device Height (DII)	ŕ	de e e e e e		1	0	1	0	0
		The Decision Height (DH) waming light comes on when an aircraft:	passes over the outer	descends below a	passes over the ILS inner	descends below a				
			marker.	pre-set barometric	marker.	pre-set radio				
1391	22			altitude.		altitude.	0	0	0	1
		(For this question use annex 022-11232A)	increase the flight attitude	increase the flight attitude	decrease the flight attitude	decrease the flight				
		After having programmed your flight director, you see that the indications of your ADI (Attitude Director indicator) are	and bank	and bank	and bank	attitude				
		as represented in diagram N°1 of the appended annex. On	your airplane to the left	your aeroplan e to the right	your airplane to the left	and bank your				
		this instrument, the command bars indicate that you must:	until the	until the	until the	airplane				
			command bars	command bars	command bars	to the right until				
			recentre on	recentre on	recentre on	the				
			the symbolic aeroplane.	the symbolic aeroplane.	the symbolic ae roplane.	command bars				
					-	recentre				
						on the symbolic				
						ae roplane.				
1392	22						1	0	0	0

		An aeroplane is in steady cruise at flight level 270. The	decreases.	decreases if	remains	increases.	П			$\neg$
		autothrottle maintains a constant calibrated airspeed. If the		the outside	constant.					
		total temperature increases, the Mach number:		temperature is higher						
				than the						
				standard temperature,						
				increases if						
				lower.						
1393	22						0	0	1	0
		The vertical reference unit of a three-axis data generator is	1 degree of	1 degree of	2 degrees of	2 degre es				
		equipped with a gyro with:	freedom and horizontal	freedom and vertical spin	freedom and vertical spin	of freedom and				
			spin axis	axis	axis	horizontal				
						spin axis				
1394	22						٥	0	1	
1394	22	The fields affecting a magnetic compass originate from:	1, 2, 4	1, 2, 3	1, 2, 3, 4	1, 3, 4		_	İ	$\dashv$
		1. magnetic masses								
		2. ferrous metal masses								
1395	22	3. non fe rrous metal masses					1	0	0	0
1000		The purpose of the automatic trim is to:	1, 3.	2, 3.	1, 2, 3.	1, 2.	H	J	J	Ť
		1- reduce to zero the hinge moment of the entire control surface in order to relieve the load on the servo-actuator								
		2- ensure the aeroplane is properly trimmed when the autopilot is disengaged								
		3- maintain the same stability/manoeuverablity trade-off within the whole flight envelope								
1396	22	within the whole lighterweape					0	0	1	0
		The angle of attack transmitters placed laterally on the forward part of the fuse lage supply an electrical signal	1, 3.	1, 2.	1, 2, 3.	2, 3.				
		indicating:								
		1- the angular position of a wind vane								
		2- a differential pressure in a probe, depending on the								
		variation of the angle of attack								
1397	22	3- a differential pressure in a probe, depending on the variation of the speed					0	1	0	0
. 50 /		The purpose of the altitude alert system is to generate a	airplane	proximity to	altimeter	airplane	Ħ	Ė		
		visual and aural warning to the pilot when the:	altitude is equal to the	the ground becomes	setting differs from	altitude differs				
			decision	dangerous.	the standard	from a				
			altitude.		setting above the transition	selected altitude.				
					altitude.	annuut.				
1398	22						0	0	0	1
		The advantages of a D.C. generator tachometer are:	2, 3.	1, 3.	1, 2.	1, 2, 3.				
		1- easy transmission of the information.								
		2- independence of the information relative to the airborne								
		electrical power supply.  3- freedom from any spurious current due to the commutator.								
		- needonn nom any spundus current due to the commutator.								
1399	22						0	0	1	0

		The advantages of single-phase A.C. generator tachometer are:	1, 3.	1, 2, 3, 4.	2, 3, 4.	2, 4.				
		1- the suppression of spurious signals due to a D.C. generator commutator								
		2- the importance of line resistance on the information value								
		3- the independence of the information in relation to the airbome electrical power supply								
1400	22	4- the ease of transmission of the information					1	0	0	0
		The disadvantages of a single-phase A.C. generator tachometer are:	2.	1, 2, 3.	1, 2.	1, 3.				
		1- the presence of spurious signals due to a D.C. generator commutator								
		2- the importance of line resistance on the information value								
		3- the influence of temperature on the tachometer information								
1401	22						1	0	0	0
		In a modern airplane equipped with an ECAM (Electronic centralized aircraft monitor), when a failure occurs in a circuit, the centralized flight management system:	1, 2.	1, 2, 3.	1, 3, 4.	3, 4.				
		1- releases an aural warning								
		2- lights up the appropriate push-buttons on the overhead panel								
		3- displays the relevant circuit on the system display								
		4- processes the failure automatically								
1402	22	The engagement of an autopilot is not possible when:	1, 2, 4.	2, 3, 4.	1, 3, 4.	1, 2, 3, 4.	0	1	0	0
		The engagement of all autopilot is not possible when.	1, 2, 4.	2, 3, 4.	1, 3, 4.	1, 2, 3, 4.				
		1- there is a fault in the electrical power supply								
		2- the controlled-turn knob is not set to centre-off								
		3- there is a synchronization fault in the pitch channel								
		4- there is a fault in the attitude reference unit								
1403	22	The combination marguning all the correct statements is:					0	0	0	1
		The oncoming stall of a large transport airplane appears in the form of:	control stick vibrations simulating natural buffeting.	an orange light on the warning display.	a natural buffeting which occurs prior to the simulated buffeting.	a bell type warning.				
1404	22	The voice recorder records on four different channels the	1 2 2 4	1.2		1, 2, 3.	1	0	0	0
		following information:	1, 2, 3, 4.	1, 3.	1, 4.	1, 2, 3.				
		1- aural warnings								
		2- radio communications								
		3- conversations between the crew members through the cockpit interphone								
1405	22	4- announcements to the passengers					1	0	0	0

When, in flight, the receile and ball of a needle-and-bail with too much bank and distor are on the right, the aircraft is a limit too much bank and distor are on the right, the aircraft is a limit too much bank and ball of a needle-and-bail moderate and the GPVIS (Gound Proximity Warring System) get acrossed because it is descenting that the aeroplane has an excessive rate of descent, the system provides the following aural warring signals:    When, in flight, the needle of a needle-and-bail indicator is on the right and the bail on the left, the aeroplane is on the right and the bail on the left, the aeroplane is on the right and the bail on the left, the aeroplane is an excessive manufacture on the right and the bail on the left, the aeroplane is an across the special of the policy than a ward warring "DONT SIRK" (whice) the provides the policy with an award warring "DONT SIRK" (whice times), it is because:    Attributed   Policy (Ground Proximity Warring System) activates and proximity to the automatic time control system of an autopitot, and proximity to the automatic time control system of an autopitot, and proximity to the operation of a Mach time system is control and the proximity of the operation of a Mach time system is control and the proximity of the operation of a Mach time system is control and the operation of a Mach time system is control and the operation of a Mach time system is control and the operation of a Mach time system is control and the operation of a Mach time system is control and the operation of a Mach time system is control and the operation of a Mach time system is control and the operation of a Mach time system is control and the operation of a Mach time system is control and the operation of the following statements is true with regard to proximity to the operation of a Mach time system is control and the operation of the following statements is true with regard to proximity to the operation of a Mach time system is control and the operation of the following statements is tr			The stall warning system of a large transport airplane	1, 4.	1, 2, 4, 5.	1, 2, 5.	1, 2, 4.					П
2 - a computer 3 - a transmitter originating from the anemometer 4 - an independent pitol probe 4 - an independent pitol probe 5 - a transmitter or dischall posterior indicating system When, infight the need and belief to a needle-and-ball indicator are on the right, the adrocal is:  If an alternatia flying (with flage and landing gear retracted) indicator in proximity to terral and rise GPWS (Gound Proximity Warning System) and substitute the adrocal and consult is designed by the adrocal indicator is on the right. The need of a needle-and-ball indicator is on the right and the ball on the left, the alternat is:  If the GPWS (Ground Proximity Warning System) activates, and the right and the ball on the left, the alternat is:  If the GPWS (Ground Proximity Warning System) activates, and belief the pitor with an aurusi warning "DONT SIN" on the right and the pitor with an aurusi warning "DONT SIN" on the acrosal indicator is an approximate and laternate pitor with an aurusi warning "DONT SIN" on the acrosal indicator is an approximate of the control system of an autopitor, with a complex speciments in the acrosal indicator is an approximate of the acrosal indicator is approximate of the acrosal indicator is an approximate of the acrosal indicator is app			includes:									
2 - a computer 3 - a transmitter originating from the anemometer 4 - an independent pitol probe 4 - an independent pitol probe 5 - a transmitter or dischall posterior indicating system When, infight the need and belief to a needle-and-ball indicator are on the right, the adrocal is:  If an alternatia flying (with flage and landing gear retracted) indicator in proximity to terral and rise GPWS (Gound Proximity Warning System) and substitute the adrocal and consult is designed by the adrocal indicator is on the right. The need of a needle-and-ball indicator is on the right and the ball on the left, the alternat is:  If the GPWS (Ground Proximity Warning System) activates, and the right and the ball on the left, the alternat is:  If the GPWS (Ground Proximity Warning System) activates, and belief the pitor with an aurusi warning "DONT SIN" on the right and the pitor with an aurusi warning "DONT SIN" on the acrosal indicator is an approximate and laternate pitor with an aurusi warning "DONT SIN" on the acrosal indicator is an approximate of the control system of an autopitor, with a complex speciments in the acrosal indicator is an approximate of the acrosal indicator is approximate of the acrosal indicator is an approximate of the acrosal indicator is app												
3. a transmitter originaring from the anemometer 4. an independent prior probe 5. a transmitter or the flagsbat position indicating system  When, Inflight, the needle and sall of a needle-and-sall indicator are on the right, the arcent is:  When, Inflight, the needle and sall of a needle-and-sall indicator is but in a control in the region of the arcent is flying leith flags, and landing gear retroated is proximity; to termin and its GPXS (Glownd Proximity Warring System) got activated because it is detecting that the aericatane has an excessive rate of descort, the system provides the following aural warring signals:  When, Inflight, the needle of a neodle-and-ball indicator is on the right and the ball on the laft, the aericata is:  with the aericatane has an excessive make of descort, the system provides the following aural warring signals:  When, Inflight, the needle of a neodle-and-ball indicator is on the right and the ball on the laft, the aericata is:  with the aericatane has an excessive make of descorts, the system on the right and he ball on the laft, the aericata is:  with the aericatane has an excessive make of descorts, the system on the right and he ball on the laft, the aericata is:  with the aericatane has a more activated by the aericata is:  with the aericatane has a more activated by the aericata is:  with the aericatane has a more activated by the aericatane has a more activated			1- an angle of attack sensor									
3. a transmitter originaring from the anemometer 4. an independent prior probe 5. a transmitter or the flagsbat position indicating system  When, Inflight, the needle and sall of a needle-and-sall indicator are on the right, the arcent is:  When, Inflight, the needle and sall of a needle-and-sall indicator is but in a control in the region of the arcent is flying leith flags, and landing gear retroated is proximity; to termin and its GPXS (Glownd Proximity Warring System) got activated because it is detecting that the aericatane has an excessive rate of descort, the system provides the following aural warring signals:  When, Inflight, the needle of a neodle-and-ball indicator is on the right and the ball on the laft, the aericata is:  with the aericatane has an excessive make of descort, the system provides the following aural warring signals:  When, Inflight, the needle of a neodle-and-ball indicator is on the right and the ball on the laft, the aericata is:  with the aericatane has an excessive make of descorts, the system on the right and he ball on the laft, the aericata is:  with the aericatane has an excessive make of descorts, the system on the right and he ball on the laft, the aericata is:  with the aericatane has a more activated by the aericata is:  with the aericatane has a more activated by the aericata is:  with the aericatane has a more activated by the aericatane has a more activated			2- a computer									
4- an independent plot probe  2- a transmitter of the flagosist position indicating system or indicator are on the right, the earted and sold a readle-and-ball with to much bank indicator are on the right, the aircraft is:  1407 22 If an aircraft is lifying with flagos and landing goar intracted, inpoxinity to tearrain and its GPNS (Glound Proximity Warring System) get advised, because it is describing high the energinate has an exceeding that the energinate has an exceeding sold the electron of the following aural warring signals:  1408 22 When, in light, the needle of a needle-and-ball indicator is on the right and the ball on the left, the aircraft a:  1409 22 When, in light, the readle of a needle-and-ball indicator is on the right and the ball on the left, the aircraft a:  1409 22 When, in light, the readle of a needle-and-ball indicator is on the right and the ball on the left, the aircraft a:  1409 22 When, in light, the readle of a needle-and-ball indicator is on the right and the ball on the left, the aircraft a:  1409 22 When, in light, the readle of a needle-and-ball indicator is on the right and the ball on the left, the aircraft a:  1409 22 When, in light, the readle of a needle-and-ball indicator is unming left with the mind and the left of the left, the aircraft a:  1409 22 When, in light, the readle of a needle-and-ball indicator is unming left with the mind that is a light of the left of the le			•					]				
Add   22   S- a transmitter of the flag/test position indicating system   When, in Hight, the neede and kall of a neede-and-ball indicator are on the right, the aircraft is flying (with flags and landing gear retracted) in proximity to barran and its GPWS (Globund Proximity Warring System) excels with boards in stocking and the aircraft is flying (with flags and landing gear retracted) warring signals :    If an alternaft is flying (with flags and landing gear retracted) in proximity to barran and its GPWS (Globund Proximity Warring System) excels well as the aircraft as flying with flags and landing gear retracted) warring signals :    If an alternaft is flying (with flags and landing gear retracted) warring system provides the following audit warring signals :    If an alternaft is flying (with flags and landing gear retracted) warring system provides the following audit warring signals :    If an alternaft is flying (with flags and landing gear retracted) warring warring system provides the following audit warring signals :    If an alternaft is flying (with flags and landing gear retracted) warring warring system provides the following audit warring signals :    If an alternaft is flying (with flags and landing gear retracted) warring warring system provides the following audit warring signals :    If an alternaft is flying (with flags and landing gear retracted) warring warrin												
When, in fight, the need and ball lot a reade-and-ball indicator are on the right, the aircraft is:			4- an independent pitot probe									
Indicator are on the right, the aircraft is:	1406	22							0	0	1	0
Man aicraft is flying (with flaps and landing gear retracted)				_	_							
If an aircraft is flying (with flaps and landing gair retracted) in powinity to terman and its OPWS (Glound Proximity Warning System) gat active the aeroplane has an excessive rate of descent, the system provides the following aural warning signals:    Author indicator is until active the aeroplane has an excessive rate of descent, the system provides the following aural warning signals:    Author indicator is until active the aeroplane has an excessive rate of descent, the system of the right and the ball on the left, the acrost is in the right and the ball on the left, the acrost is in the right and the ball on the left, the acrost is in the right and the ball on the left, the acrost is in the right and the ball on the left, the acrost is in the acrost is into the right and lates the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an alastes the plot with an aural warning "DONT SINK" (with the acrost is an a			madata are an are right, are arelation		I		-					
If an element is shirping with flags and landing gear methoded in proportion of a landing gear methoded in the service of the color o	1 407	22							١	١	,	
Improximity to terrain and its GPMS (Ground Proximity Warring System) as activated, because it is destending that the aeroplane has an excessive rate of descent, the system provides the following aural warring signals:    Althory Company of the color of the following aural warring signals:	1407	22	If an aircraft is flying (with flans and landing gear retracted)	"DON'T	"TERRAIN	"TOO LOW			0	_	-	Н
Warning System) get activated, because it is detecting that he proprieties are proposed by the company has a com						1 '						
August   Provides the following aural warning signals :				SINK"	followedby	(twice)						1
PULL UP (wice)   CEAR* (wice)   Whon, in flight, the needle of a needle-and-ball indicator is on the right and the ball on the left, the aircraft e :   unming left with not much bank   with not mu			· · · · · · · · · · · · · · · · · · ·		1							l l
1408   22   When, in flight, the needle of a needle-and-ball indicator is on the right and the ball on the left, the aircraft is on the right and the ball on the left, the aircraft is on the right and the ball on the left, the aircraft is on the right and the ball on the left, the aircraft is on the right and the ball on the left, the aircraft is on the right and the ball on the left, the aircraft is on the right and the ball on the left, the aircraft is on the right. With not much bank on the right and the ball on the left, the aircraft is with not much bank on the right. With not much bank on the right. Unline gight with not much bank on the right. Unline gight with not much bank on the right. Unline gight with not much bank on the right. Unline gight with not much bank on the right. Unline gight with not much bank on the right. Unline gight with not much bank on the right. Unline gight with not much bank on the right. Unline gight with not much bank on the right. Unline gight with not much bank on the nough bank of the wint to with too much bank on the nough bank of the wint too much bank on the aircraft as a target with landing alary as an aircraft has standed proximity to the terrain, without an aircraft has standed proximity to the terrain, without an aircraft has a san the aircraft has standed the aircraft has a san the aircraft has standed the aircraft has a san the air			provides the following a ural warning signals:									
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A turn indicator is built around a gyroscope with:   1 degree of freedom.   1 degree of freedom.   2 degrees of freedom.   2 degrees of freedom.   3 degrees of freedom.   4 degree of freedom.   5 degree of freedom.   6 degree of freedom.   6 degree of freedom.   6 degree of freedom.   7 degree o				IIIdeii baiik	errough bank	IIIdeii baiik	-					
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In an engine vibration monitoring system for a turbojet any vibration produced by the engine is:  In an engine vibration monitoring system for a turbojet any vibration produced by the engine is:  In an engine vibration monitoring system for a turbojet any vibration produced by the engine is:  In an engine vibration monitoring system for a turbojet any vibration produced by the engine is:  In an engine vibration monitoring system for a turbojet any vibration produced by the engine is:  In an engine vibration monitoring system for a turbojet any vibration produced by the engine is:  In an engine vibration monitoring system for a turbojet any vibration produced by the engine is:  In an engine vibration monitoring system for a turbojet any vibration filtered before the engine spe ed.  In an engine vibration monitoring system for a turbojet any vibration filtered before the engine spe ed.  In an engine vibration monitoring system for a turbojet any vibration filtered before the engine spe ed.  In an engine vibration produced by the engine is:  In an engine vibration produced by the engine is:  In an engine vibration filtered before the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration filtered before the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vibration and prove the cockpit indicator.  In an engine vib					peeds.							ااا
vibration produced by the engine is:  proportional to engine indicator without amplification or filtering.  Among the systematic errors of the "directional gyro", the error due to the earth rotation make the north reference tum in the horizontal plane. At a mean latitude of 45° N, this  proportional the cockpit indicator without amplification or filtering.  proportional the cockpit indicator.  proportional the cockpit indicator.  proportional the cockpit indicator.  9 0 0 1 0  15°/hour to the right.  15°/hour to the right.	1413	22	In an anaine vibration monitoring evetem for a turboict any	directly	fod directly to	amplified and	invomok		1	0	0	0
to engine speed.  I 414 22  Among the systematic errors of the "directional gyro", the error due to the earth rotation make the north reference turn in the horizontal plane. At a mean latitude of 45° N, this  to engine without amplification or filtering.  being fed to the cockpit engine speed.  1 to engine speed.  7.5°/hourto the right.  7.5°/hourto the right.  To the right.				1 -		1 '	, ,					
amplification or filtering.    414   22     22     25   26   27   27   27   27   27   27   27			3	1 1								
or filtering.  Among the systematic errors of the "directional gyro", the error due to the earth rotation make the north reference turn in the horizontal plane. At a mean latitude of 45° N, this or filtering.  or filtering.  or filtering.  15°/hour to the right.  7.5°/hour to the right.  7.5°/hour to the left.  the left.  or filtering.  10.5°/hour to the right.				speed.		1	engine spe					
Among the systematic errors of the "directional gyro", the error due to the earth rotation make the north reference turn in the horizontal plane. At a mean latitude of 45° N, this    Among the systematic errors of the "directional gyro", the the right.   15°/hour to the right.   7.5°/hour to the left.   10.5°/hour to the right.   10.5°/hour to					1	indicator.	ed.					
Among the systematic errors of the "directional gyro", the error due to the earth rotation make the north reference turn in the horizontal plane. At a mean latitude of 45° N, this 15°/hour to the right. 7.5°/hour to the right. 7.5°/hour to the right. 7.5°/hour to the left. 7.5°/hour to the right.					or filtering.							
error due to the earth rotation make the north reference the right. the right. the left. to the right.	1414	22							0	0	1	0
tum in the horizontal plane. At a mean latitude of 45°N, this												
				in e right.	tne right.	tne left.						
	1415	22					J. 9		0	0	0	1
		-			•							

		The operating principle of Flowmeters, or "unit flow meters," the most commonly used at the present time, is to measure	quantity of fuel	pressure and temperature	volumetric mass and	volume and viscos				$\prod$
		across their system the :	movement	of the fuel	di-electric	ity of the				
1416	22				resistance of the fuel	fuel	1	0	0	0
		The quantity of fuel in the tanks is measured by capacitor	di-electric	height of the	volume of the	charge of			П	T
		type contents gauges. The working principle of these sensors is to measure the:	resistivity of the fuel	fuel	fuel	condensor s				
1417	22	-					0	0	0	1
		To permit turbine exit temperatures to be measured, gas turbines are equipped with thermometers which work on the	gas pressure	th ermo couple	bi-metallic strip	liquid expansion				
1418	22	following principle:					١	1	0	
1410		During an acceleration phase at constant attitude, the	nose-down	constant	nose-down	nose-up		_	H	$\dashv$
		resetting principle of the artificial horizon results in the horizon bar indicating a:	attitude	attitude	followed by a nose-up	attitude				
1419	22	<u> </u>			attitude		0	0	0	1
		An aircraft takes-off on a runway with an alignment of 045°.  The isogonic line on the area chart indicates 0°. The	wi <b>l</b> l be nul	is such that the compass	is such that the compass	will be nul if the				
		compass deviation is O°.		will indicate a	will indicate a	wings are				
		On a take-off with zero wind, the northerly turning error:		value noticeably	value noticeably	kept level.				
				below 045°.	above 045°.					
1420	22						0	1	0	0
			an apparent	an apparent	a heading	no			П	
		the magnetic compass will indicate:	tum to the East.	tum to the West.	fluctuating about 360°.	apparent tum.				
1421	22	The investment of the ODMO (Output Description)	4.05.0.7	4.005.7	00.45.7	4.05.0.7	0	0	0	1
		The inputs to the GPWS (Ground Proximity Warning System), are:	1, 2, 5, 6, 7	1,2,3,5,7	2,3,4,5,7	1, 2,5,6,7				
		1- Air Data Computer - (Mach number and Vertical Speed)								
		2- Radio Altimeter								
		3- NAV/ILS (Glide Slope)								
		4- NAV/VOR								
1422	22	5- Flap (position)					0	1	0	0
		Following 180° stabilized turn with a constant attitude and bank, the artificial horizon indicates:	toohigh pitch-upand	toohigh pitch-upand	attitude and banking	toohigh pitch up				
		bank, the distribution indicates .	to o low	correct	correct	and too				
1423	22		banking	banking		high banking	1	0	0	0
		The disavantages of an "electric" fuel (float) gauge are:	1	2, 3, 4	1, 2, 3, 4	2, 3, 4, 5			П	T
		1- the design is complex								
		2- the indications are influenced by the airplane attitude variations								
		3- the indications are influenced by the accelerations								
		4- the indications are influenced by temperature variations								
		5- that an alternative current supply is necessary								
1424	22	The combination regrouping all the correct statements is:					0	1	0	0
		In an average or heavy weight transport airplane, generally, the fuel quantity is measured by "capacitor" gauges	1, 3	1, 2	1, 2, 3	2				
		because these give :								
		1- indications partly independent of fuel temperature variations								
		2- indications almost independent of the airplane's attitude and accelerations								
1425	22	3- indications expressed in density					0	1	0	0
			1	1			_	ш	_	_

		The operating principle of an "electronic" tachometer is to	rotation	magnetic	frequency of	electromoti					
		measure the:	speed of an	field produce	the electric	ve force					
			asynchronou	d by a	impulse	(EMF)					
			s motor	dynamo or	created by a	produced	i				
			energized by	an alternator.	notched	by a	i				
			an alternator.		wheel	dynamo					
					rotating in a	or an	i				
					magnetic	altemator.					
4 400					field.						
1426	22							0	0	1	0
		The operating principle of the "induction" type of tachometer	electromotive	frequency of	magnetic	rotation					
		is to measure the:	force (EMF)	the electric impulse	field produce d by a	speed of					
			produced by a dynamo or	created by a	dynamo or	an asynchron					
			an alternator.	notched	an alternator.	ous motor					
				wheel		energized					
				rotating in a		by an					
				magnetic		alternator.					
				field.							-
1427	22							0	0	0	1
		An automatic landing system which can keep on operating	"REDUNDAN	"OPERATION	"PASSIVE"	"SAFE"					╗
		without deterioration of its performances following the failure	T"	AL"							
		of one of the autopilots is called "FAIL:					i				
1428	22							0	1	0	0
		An automatic landing system necessitating that the landing	"OPERATION	"SAFE"	"REDUNDAN	"PASSIVE"					
		be continued manually in the case of a system failure during	AL"		T"						-
1429	22	an automatic approach is called "FAIL"						٨	0	٨	,
1429	22	The input signal of the amplifier of the gyromagnetic	directional	error detector.	flux valva	directional		$\Box$	-	-	╣
		compass resetting device originates from the:	gyro erection	error detector.	llux valve.	gyro unit.	i				
		compass resetting device originates normine.	device.			gyro uriit.	i				
1430	22		de vice.					0	1	0	0
		The heading information originating from the gyromagnetic	error detector.	erector	he ad in g	amplifier.				$\exists$	┪
1431	22	compass flux valve is sent to the:		system.	indicator.			1	0	0	0
		The flight data recorder must start data recording	when lining	before the	when	when the					
		automatically:	up.	airplane is	taking-off.	lan ding					
				able to move		gear is					
				by under its		retracted.					
				own power.			i				
4 400										_	
1432	22	NEE : 4				20. 41		0	1	0	4
		VFE is the maximum speed:	at which the	with the flaps	with the flaps	with the					
			flaps can be	extended in	extended in a	flaps					
			operated.	take-off	given position.	extended					
1433	22			position.		in landing position.	i	٥	0	1	٦١
1700		The operating frequency range of a low altitude radio	2700 MHz to	5 GHz.	4200 MHz to	5400 MHz		H	Ť	╛	Ť
		altimeter is:	2900 MHz.	0 0112.	4400 MHz.	or 9400					
		annotor b.	2000 1711 12.		14400 IVII 12.	MHz.					
1434	22							0	0	1	0
		In the northern hemisphere, during deceleration following a	a heading	an apparent	an apparent	a constant		П		┪	┫
		landing in an Easterly direction, the magnetic compass will	fluctuating	tum to the	tum to the	heading.					
		indicate:	about 090°.	South.	North.						
1435	22							0	1	0	0
		If the outside temperature at 35 000 feet is -40°C, the local	686 kt.	596 kt.	247 kt.	307 kt.					
1436	22	speed of sound is:						0	1	0	0
		A semi-automatic landing system disconnects itself	on ground.	when going	at	at the	i				
4 407	22	automatically:		around.	approximatel	decision	i	٨		,	٦
1437	22	The simple contribution of the simple contributi	H-4-4'-H-1'-	H4 - 4 - 1 H 1 -	y 100 ft.	height.		0	U	1	Ч
		The airplane outside air temperature "probe" measures the:	"static" air	"total" air	"static" air	"total" air					
			temperature minus	temperature minus kinetic	temperature minus kinetic	temperatur e minus					
			compressibilit		heating	compressi					
I			v effects in	effects in	effects in	bility					
			17 0110013 111		order to	effects in	1				
			order to	Lorder to							
			order to	order to obtain the							
			order to obtain the total	order to obtain the static	obtain the total	order to					
			obtain the	obtain the	obtain the	order to					
			obtain the total	obtain the static	obtain the total	order to obtain the					
			obtain the total	obtain the static	obtain the total	order to obtain the static					
1438	22		obtain the total	obtain the static	obtain the total	order to obtain the static temperatur		0	1	0	0

		When an aircraft, operating in the VOR coupled mode, approaches the "cone of confusion" over a VOR station, the roll channel of the autopilot:	remains always coupled to the selected VOR radial.	is temporarily disconnected.	temporarily switches over to the heading mode.	is damped by a trim input signal from the lateral trim syste m.		)		
		Heading information given by a gyro platform, is given by a gyro at :	2 degrees-of-fr eedom in the vertical axis	1 degree-of-fre edom in the horizontal axis	I degree-of-free dom in the vertical axis	2 degrees-of -freedom in the horizontal axis		0		
		For this question use annex (022-10179A)  Four scenarios of VOR axis interception are represented in the appended annex. The one corresponding to the optimal interception path calculated by a flight director is number:	3	2	1	4		1		
		The requirement to carry a GPWS (Ground Proximity Warning System) concerns aeroplanes which are, depending on their age, weight and passenger capacity:  1- turboprop-powered 2- piston-powered 3- jet-powered	1, 3	1	1, 2, 3	3				
2 2	22	o ja powarcu					1	0	0	0
3 2	22	The gyromagnetic compass torque motor :	causes the directional gyro unit to precess	causes the heading indicator to precess	feeds the error detector syst em	is fed by the flux valve	1	0	0	0
		A flux valve senses the changes in orientation of the horizontal component of the earth's magnetic field.	2 - 3 - 5	1 -3 - 4 - 5	3 - 5	1 - 4 - 5				
		1- the flux valve is made of a pair of soft iron bars 2- the primary coils are fed A.C. voltage (usually 487.5 Hz) 3- the information can be used by a "flux gate" compass or a directional gyro								
		<ul> <li>4- the flux gate valve casing is dependent on the aircraft three inertial axis</li> <li>5- the accuracy on the value of the magnetic field indication is less than 0,5%</li> </ul>								
2	22						1	0	0	0
		The flight data recorders must preserve the conversation and aural warnings of the last:	48 hours of operation	30 minutes of operation	25 hours of operation	flight	 0	1	0	0
		A thermocouple can be made of:	a three wire coil.	a single wire coil.	two metal conductors of different nature fixed together at two points.	two metal conductors of the same nature fixed together at two points.	C	0	1	
) 2	22		]				L	0	0 0	0 0 1

		The main input data to the Stall Warning Annunciator	1,4	1,2	2,4	2,3					
		System are:									
		1- Mach Meter indication									
		2- Angle of Attack									
		3- Indicate Airspeed (IAS)									
1447	22	4- Aircraft configuration (Flaps/Slats)					4	0	0	1	0
		In accordance with (ICAO) Annex 6 part I, the flight data recorder is to be located in the aircraft:	at the right or left wing tip	as far to the rear as	as far forward as practicable	as near to the					
				practicable	·	landing ge					
						ar as practicable					
1448	22							0	1	0	0
		Magnetic compass swinging is carried out to reduce as much as possible:	acceleration.	deviation.	variation.	regulation.					
1449	22						_	0	1	0	0
		In the Southern hemisphere, during deceleration following a landing in a Westerly direction, the magnetic compass will	no apparent tum.	a heading fluctuating	an apparent turn to the	an apparent					
		indicate:		about 270°.	North.	tum to the					
1450	22					South.	- [,	١٥	0	1	0
1.50		The automatic trim is a component of the autopilot pitch	reset the	set the	automatically	transfer a	$\dashv$	$\dagger$	7		$\sqcap$
		channel. Its function is to:	attitude, after engaging (the	attitude to an instantaneous	disengage the autopilot	stabilized aeroplane					
			autopilot).	value before	in the case	to the pilot					
				engaging the	of an	during					
				autopilot.	excessive pitch up.	autopilot disengage					
						ment.					
1451	22						-  ,	0	0	0	1
		The autothrottle :	1 and 3	2 and 3	1 and 4	1, 3 and 4		Ī			П
		1- enable to catch and to maintain the N1 RPM									
		2- enable to catch and to maintain the N2 RPM									
		3- enable to catch and to maintain an airplane indicated airspeed (IAS)									
1452	22	4- is always engaged automatically at the same time as the						1	0	0	0
1 102		autonibt The advantages of an "electric" fuel (float) gauge are :	1	1, 2, 3, 4, 5	2, 3, 4, 5	2, 3, 4	1	†			T
		1- easy construction									
		2- independence of indications with regard to airplane attitude									
		3- independence of indications with regard to the accelerations									
		4- independence of indications with regard to temperature variations									
1453	22	5- independence of indications with regard to vibrations						1	0	0	0
1454	22	The maximum directional gyro error due to the earth rotation is:	180°/hour	5°/hour	15°/hour	90°/hour		۱٥	۱٥	1	0
		Landing shall be considered as having been carried out	at the outer	du ring ground	during the	at the	$\top$	$\dagger$	+		$\dashv$
		automatically when the autopilot and the auto-throttle of an aircraft are disengaged by flight crew:	marker.	roll.	flare.	decision height.					
1455	22	andat are userigaged by myrt dew .				neignt.		0	1	0	0
		<del>-</del>								_	_

		When the altitude acquisition mode is engaged on a jet	true airspeed	indicated	indicated	true				T	T
		transport airplane equipped with autopilot (AP) and auto-throttle (ATS) systems the:	(TAS) is maintained	airspeed (IAS) is	airspeed (IAS) is	airspeed (TAS) is					
			constant by	maintained	maintained	maintained					
			the	constant by	constant by	constant					
			auto-throttle	the	the autopilot	by the					
			system.	auto-throttle system.	by means of elevator.	autopilot by means					
				System.	Cic valoi.	of elevator.					
1456	22							0	0	1	٥
1450		The CVR (Cockpit Voice Recorder) includes:	1, 2, 3, 4	2, 4	1, 2	1, 4		Ĭ	1	Ť	Ť
		1. a microphone									
		a recorder in compliance with the shock and fire resistance standards									
1457	22	3. an independent battery						١	١	1	۱
1457	22	The computers of the electrical flight controls system comply	1, 3, 4	1, 2, 3	2, 3	1, 2, 3, 4			-	╁	$\dashv$
		with programs defined by attitude control laws such as:									
		1- on the longitudinal axis, the law may combine the load									
		factor and the changes in the pitch rate as control data sources									
		2- the trimming is automatic and ensures neutral stability									
		3- the protections apply to pitch and bank attitudes depending on the speed									
		4- these laws do not apply to the whole flight envelope									
1458	22	The combination regrouping all the correct statements is:						0	1	0	0
		The synchronization of the autopilot control channel system :	3, 4	2, 4	1, 4	2, 3		П	寸	T	ヿ
		1- enables the prevention of jerks during disengagement									
		2- enables the cancellation of rudder control signals									
		3- enables the prevention of jerks during engagement									
		4- functions in the heading, navigation, approach modes									
		The combination regrouping all the correct statements is:									
1459	22	The combination regrouping an the confect statements is.						1	0	0	١
		A Full Authority Digital Engine Control (FADEC) has the	1, 3, 4, 5	1, 2, 3, 4, 5	2, 4, 5	1, 3, 5		П		7	ヿ
		following functions :									
		A Common mala Cara Caral Assarbase Caral									
		1- flow regulation (fuel, decelerations and accelerations monitoring)									
		2- automatic starting sequence									
		3- transmissions of engine data to the pilot's instruments						$ \  $			
		4- thrust management and protection of operation limits									
1460	22	5- monitoring of the thrust reversers							, l	0	۱
1400	<u> </u>		<u> </u>			I	L	٧	'	<u> </u>	

		· · · · · · · · · · · · · · · · · · ·	•		1	1, 4				ıl
1461 22	2	turbojet thrust are the:	N1) or the total pressure at the low	fan rotation speed (or N1) or the EPR (Engine Pressure Ratio).	high pressure turbine rotation speed or the EPR (Engine Pressure	fan rotation sp eed (or N1) or the total pressure	1	0	0	0
			pressure turbine outlet.		Ratio).	at the high pressure compress or outlet.				
1462 22	2						0	1	0	0
1463 22	2	1. the information exchanged by the cabin crew 2. the conversations between the crew members and voice communications transmitted from or received on the flight deck by radio 3. the announcements made via the public address even if it has not been selected 4. the conversations and alarms audible in the cockpit 5. the captain conversations only	1, 2, 3, 4, 5	2, 4, 5	1, 3, 4	1, 3	0	1	0	0
1464 22		1- when approaching the pre-selected altitude 2- when the airplane is approaching the ground too fast 3- in case of a given deviation above or below the pre-selected altitude (at least by an aural warning) 4- in case of excessive vertical speed 5- when approaching the ground with the gear retracted The combination regrouping all the correct statements is:					0	0	0	1
1465 22		In an auto-pilot slaved powered control circuit, the system which ensures synchronisation:	d surface	is inhibited when the automatic pilot is engaged.	can itself, when it fails, prevent the automatic pilot from being engaged.	intervenes only when the automatic pilot has been engaged.			1	
1400 22			rudder(s)	elevator(s)	elevator(s),	elevator(s)	0	٦	$\dashv$	$\prod$
1466 22		out the hinge moment of the :		and rudder(s)	rudder(s) and aile rons.		0	0	0	1

		The automatic power control system (autothrottle) of a transport airplane has the following mode(s):	1, 2, 4	1, 2, 3, 5	2, 4	1, 4, 5				
		1- capture and holding of speeds								
		2- capture and holding of Mach number								
		3- capture and holding of flight angle of attack								
		4- capture and holding of N1 or EPR (Engine Power Ratio)								
		5- capture and holding of flight paths								
1467	22	A landing is performed automatically when the autopilot and	until the flare.	until reaching	during the	until	1	0	0	0
		auto-throttle ensure good performance from the final approach:		decision height.	landing roll	reaching 100 ft,				
		арроаст.		neight.	sometimes	height at				
					un til the aircraft	which point the				
					comes to a	autopilot				
					complete stop.	is automati cally				
					J	disconnect				
1468	22					ed.	0	0	1	0
		The flight data recorder must automatically stop data	landing gear	airplane clears the	airplane	main gear shock strut				П
		recording when the:	and locked.	runway.	cannot any longer move	compresse				
					by its own power.	s when touching				
					power.	the				
						runway.				
1469	22	The functions of an autopilot (basic modes) consist of :	guiding the	stabilizing	stabilizing	monitoring	0	0	1	0
		(4-00-00-00-00-00-00-00-00-00-00-00-00-00	airplane path.	and monitorin	and monitorin	the				
				g the movement	g the movement	movement of the				
				around the	around the	airplane				
				airplane aerodynamic	airplane centre of	centre of gravity.				
1470	22			centre.	gravity.		0	٨	1	
1470	22	A pilot engages the control wheel steering (CWS) of a	restore the	maintain the	roll wings	maintain		0	_	Н
		conventional autopilot and carries out a manoeuvre in roll.  When the control wheel is released, the autopilot will:	flight attitude and the rate	flight attitude obtained at	level and maintain the	the track and the				
		Which the control wheel to released, the datephot will.	of turn	that moment.	heading	flight				
			selected on the autopilot		obtained at that moment.	attitude obtained				
			control		illatinoment.	at that				
			display unit.			moment.				
1471	22						0	1	0	0
		A slaved directional gyro derives it's directional signal from:	a direct reading	the flight director.	the flux valve.	the air-data-co				
1.470	22		magnetic			mputer.			4	
1472	22	If the tanks of your airplane only contain water, the capacitor	compass. a mass equal	a mass of	the exact	a mass	0	U	_	$\dashv$
		gauges indicate:	to the mass	water	mass of	equal to				
			of a same volume of	different from zero,	water contained in	zero.				
4 470	00		fuel.	but inaccurat	the tanks.			إر		
1473	22		<u> </u>	e.	<u> </u>		0	1	U	U

		From a flight mechanics point of view, the "guidance" functions of a transport airplane autopilot consist in:	stabilizing and monitorin g the movements around the aerodynamic centre.	monitoring the movemen ts of the centre of gravity in the three dimensions of space (path).	stabilizing and monitorin g the movements around the centre of gravity.	monitoring the movement s of the aerodyna mic centre in the three dimension				
1474	22					s of space (path).	0	1	0	0
		During a Category II automatic approach, the height information is supplied by the :	altimeter.	radio altimeter.	GPS (Global Positioning System).	encoding altimeter.				
1475	22				,		0	1	0	0
1476	22	Except for airplanes under 5,7 t airworthiness certificate of which is subsequent to 31 march 1998, a flight data recording system must be able to store the recorded data for a minimum of the last:	10 hours.	30 minutes.	60 minutes.	25 hours.	0	0	0	1
1470		The autopilot basic modes include, among other things, the following functions:	1, 4	1, 3	1, 2, 3, 4	1, 2, 3	0			1
		1- pitch attitude hold 2- pressure altitude hold 3- horizontal wing hold								
1477	22						٦	1	۸	۱
		4- heading hold The basic principle used for measuring a quantity of fuel in a transport airplane equipped with "capacitor" gauges is that the:	internal resistance of a capacity depends on the nature of the dielectric in which it is immersed.	capacity of a capacitor depends on the distance between its plates.	electromotive force of a capacity depends on the nature of the dielectric in which it is immersed.	capacity of a capacitor depends on the nature of the dielectric in which it is immersed.				
1478	22	The Engine Pressure Ratio (EPR) is computed by:	dividing turbine discharge pressure by compressor inlet pressure.	dividing compressor discharge pressure by turbine discharge pressure.	multiplying compressor inlet pressure by turbine discharge pressure.	multiplying compress or discharge pressure by turbine inlet pressure.		0		
1479	22	The command bars of a flight director are generally	HSI	RMI (Radio	ILS	ADI	╣	-	-	$\dashv$
1480	22	represented on an:	(Horizontal Situation Indicator)	Magnetic Indicator)	(Instrument Landing System)	(Attitude Director Indicator)	0	0	0	1
1481	22	A thermocouple type thermometer consists of:	a single-wire metal winding.	two metal conductors of different type connected at one point.	two metal conductors of the same type connected at two points.	a Wheatston e bridge connected to a voltage ind icator.			0	
							_	_	_	_

1482	22	The disadvantage of an electronic rpm indicator is the :	necessity of providing a power supply sourc e.	generation of spurious signals at the commutat or.	influence of temperature on the indication.	high influence of line resistance on the indication.	1	0	0	0
1402	22	In a transport airplane, an autopilot comprises, in addition to the mode display devices, the following fundamental elements:	1, 3, 4, 6	1, 2, 6	2, 3, 4, 5, 6	2, 3, 4, 5	-	U	O	
		1- Airflow valve 2- Sensors								
		3- Comparators								
1483	22	<ul><li>4- Computers</li><li>5- Amplifiers</li></ul>					0	0	1	0
		The principle of capacity gauges is based on the:	capacitance variation by the volume measurement carried out on the sensor.	flow rate and torque variation occurring in a supply line.	capacitance variation of a given capacitor with the type of dielectric.	current variation in the Wheatston e bridge.				
1484	22	The Head Up Display (HUD) is a device allowing the pilot, while still looking outside, to have:	a monitoring only during Cat III precision approaches.	a synthetic view of the instrument procedure.	a flying and flight path control aid.	a monitoring of engine data.	0	0	1	0
1485	22	The control law of a transport airplane autopilot control	computer	input and	crew inputs	computer	0	1	0	0
		channel may be defined as the relationship between the:	input deviation data and the signals received by the	output signals at the amplifier level respectively control deviation data and control deflection signals.	to the computer and the detector responses (returned to the airplane).	input deviation data and the output control deflection signals.				
1486	22	Flight recorder duration must be such that flight data, cockpit	20 hours for	48 hours for	25 hours for	24 hours	0	0	0	1
1.407	20	voice and sound warnings may respectively be recorded during at least:	flight data, 15 minutes for cockpit voices and warnings homs.	flight data, 60 minutes for cockpit voices and warnings homs	flight data, 30 minutes for cockpit voices and warnings homs.	for flight data, 60 minutes for cockpit voices and warnings homs.			4	
1487	22	When flying from a sector of warm air into one of colder air, the altimeter will:	unde rread.	be just as correct as before.	show the actual height above ground.	overread.	U	0	_	
1488	22				J		0	0	0	1