1.	3,512 040 01 01 01 Competence and limitations
	Concerning the relation between performance and stress, which of the following statement(s) is (are) correct?
	A moderate level of stress may improve performance.
	A student will learn faster and better under severe stress.
	Domestic stress will not affect the pilot's performance because he is able to leave this type of stress on the ground.
	A well trained pilot is able to eleminate any kind of stress completely when he is scheduled to fly
2.	3,513 040 01 01 01 Competence and limitations
	Stress is a frequent aspect of the pilot's job. Under which of the following circumstances does it occur? 1. Stress occurs whenever the pilot must revise his plan of action and does not immediately have a solution 2. Stress occurs with unexperienced pilots when the situational demands exceed their individual capabilities 3. Stress occurs if a pilot is convinced that he will not be able to find a solution for the problem he just is confronted with
	1, 2 and 3 are correct
	Only 1 is false
	1 and 2 are correct, 3 is false
	1 is correct, 2 and 3 are false
3.	3,514 040 01 01 01 Competence and limitations
	Divided attention is the ability. 1. to execute several mental activities at almost the same time (i.e. when switching attention from outside the aircraft to the airspeed indicator on the instrument panel) 2. to monitor the progress of a motor programme (i.e. flying or taxing the airplane) on a relatively subconscious level, while making a radio call at the same time (requiring a rather conscious level) 3. to select information and check if it is relevant to the task in hand. At the same time no other operation can be performed. 4. to delegate tasks to the copilot while concentrating on the procedures
	and 2 are correct, 3 and 4 are false
	1,2 and 3 are correct, 4 is false
	1 and 3 are correct, 2 and 4 are false
	Only 3 is false

4.	3,515 040 01 01 01 Competence and limitations
	The physiology of stress is now well known:
	stress promotes an increase in physical strength rather than promoting mental oerformance
	the only stress hormone is adrenaline
	stress develops in 2 stages: sublimation of performance and then acceleration of heart rate and increase in vision
	stress slows down the production of sugar by the organism and thereby slows down the heart rate
5.	3,516 040 01 01 01 Competence and limitations
	An overstressed pilot may show the following symptoms: 1. mental blocks, confusion and channelized attention 2. resignation, frustration, rage 3. deterioration in motor coordination 4. high pitch voice and fast speaking
	1, 2, 3 and 4 are correct
	1, 2 and 3 are correct, 4 is false
	1 and 2 are correct, 3 and 4 are false
	1and 3 are correct, 2 and 4 are false
6.	3,462 040 01 01 02 Becoming a competent pilot
	In the initial phase of flight training the relationship between confidence and expertise can be described as:
	the pilot is competent enough to fly the aircraft at this stage, but does neither have a great deal of confidence in his/her abilities nor in the whole system
	the pilot is sufficiently competent to fly and knows at this stage what he can and cannot do
	during this learning stage, the pilot is very near to achieving full potential knowledge of the machine
	the pilot has a sphere of expertise wich is reduced to daily use of his skills
7.	6,859 040 01 02 Becoming a competent pilot
	A pilot is skilled when he: -1: trains or practises regularly -2: knows how to manage himself/herself -3: possesses all the knowledge associated with his aircraft -4: knows how to keep resources in reserve for coping with the unexpected
	1,2,4
	1,2,3,4
	1,2
	2, 3,4

8.	3,407 040 01 02 00 Accident statistics
	The rate of accidents in commercial aviation (excluding sabotage and acts of terrorism) :
	is approximatively 1 accident per million airport movements
	has improved considerably over the last fifteen years
	is a long way short of the safety level of road transport
	represents about fifty accidents around the world every year
9.	3,409 040 01 02 00 Accident statistics
	As a cause of accidents, the human factor
	is cited in approximately 70 - 80 % of aviation accidents
	has increased considerably since 1980 - the percentage of accident in which this factor has been involved has more than tripled since this date
	which is cited in current statistics, applies to the flight crew and ATC only
	plays a negligible role in commercial aviation accidents. It is much more important in general aviation
10.	4,138 040 01 02 00 Accident statistics
	What airplane equipment marked a subtantial decrease in hull loss rates in the eighties?
	GPWS
	DME
	SSR
11.	TCAS
11.	6,890 040 01 02 00 Accident statistics In civil air transport, linear accelerations (Gx):
	 - 1 : do not exist - 2 : have slight physiological consequences - 3 : may, in the case of pull-out, lead to loss of consciousness
\square	- 4 : cause sensory illusions on the pitch axis 2,4
	3
12.	3,412 040 01 03 00 Flight safety concepts
	Thinking on human reliability is changing.
	Human errors are now considered as being inherent to the cognitive function of human and are generally inescapable
	Human errors can be avoided. All it takes is to be vigilant and to extend one's knowledge
	The individual view of safety has gradually replaced the systemic view of safety
	It is thought that it will be possible to eliminate errors in the pear future

13.	4,144 040 01 03 00 Flight safety concepts
	Between which components is an interface mismatch causing an error of interpretation by using an old three-point altimeter?
	Liveware - Hardware
	Liveware - Software
	Liveware - Environment
	Liveware - Liveware
14.	4,145 040 01 03 00 Flight safety concepts
	Between which components is an interface mismatch responsible for deficiencies in conceptual aspects of warning systems?
	Liveware - Software
	Liveware - Hardware
	Liveware - Environment
	Liveware - Liveware
15.	4,148 040 01 03 00 Flight safety concepts
	Between which components is an interface mismatch causing disturbance of the biological rhythm, thus leading to reduced human peformance?
	Liveware - Environment
	Liveware - Hardware
	Liveware - Software
	Liveware - Liveware
16.	4,149 040 01 03 00 Flight safety concepts
	The errors resulting from an irrational indexing system in an operations manual are related to an interface mismatch between
	Liveware - Software
	Liveware Hardware
	Liveware Environment
	Liveware - Liveware
17.	6;861 040 02 01 00 Basics of flight physiology
9	Man possesses a system for maintaining his internal equilibrium in the face of variations brought about by external stimulations. This internal equilibrium is called:
	Homeostasis
	Heterostasis
	Isothermy
	Metastasis

18.	58 040 02 01 01 The atmosphere
	The atmospheric gas pressure
	drops faster at lower altitudes in comparison to the same altitude changes at higher altitudes
	rises with altitude
	decreases linear with altitude
	decreases slower at lower altitudes compared with higher levels and equivalent altitude changes
19.	59 040 02 01 01 The atmosphere
	A certain amount of water vapor saturated air (i.e. intestinal gases) is transported from sea-level up to 34 000 ft. In the same amount of dry air, the volume of this gas is :
	larger
	smaller
	constant
	first larger, then smaller
20.	62 040 02 01 01 The atmosphere
	You can survive at any altitude, provided that
	enough oxygen, pressure and heat is available
	21% oxygen is available in the air you breath in
	pressure respiration is guaranteed for that altitude
	"the temperature in the cabin does not drop below 10" C"
21.	65 040 02 01 01 The atmosphere
	Fatigue and permanent concentration
	lower the tolerance to hypoxia
	increase the tolerance to hypoxia
	do not affect hypoxia at all
	will increase the tolerance to hypoxia when flying below 15 000 feet
22.	66 040 02 01 01 The atmosphere
	The atmosphere contains the following gases:
	78% nitrogen, 21% oxygen, 0,03% carbon dioxide, rest: rare gases
	78% nitrogen, 21% oxygen, 1% carbon monoxide, rest: rare gases
	78% helium, 21% oxygen, 1% carbon monoxide, rest: rare gases
	78% halium 21% oyugan 0.03% carbon dioxida, rest: rare gases

23.	67 040 02 01 01 The atmosphere
	The earth's atmosphere consists of different gases in various concentration. Match the following:
	1 nitrogen A 0,03% 2 oxygen B 0,92% 3 carbon dioxide C 20.95% 4 rare gas D 78,10%
	1D, 2C, 3A, 4B
	1B, 2A, 3D, 4C
	1C, 2B, 3A, 4D
	1D, 2C, 3B, 4A
24.	68 040 02 01 01 The atmosphere
	Gases of physiological importance to man are:
	oxygen and carbon dioxide
	nitrogen and carbon dioxide
	oxygen and carbon monoxide
	oxygen, nitrogen and water vapor
25.	69 040 02 01 01 The atmosphere
	The volume percentage of oxyger in the atmosphere is 21% which
	is constant for all altitudes conventional airplanes can reach
	decreases with increasing altitude
	increases with increasing altitude
	is dependent on the present air pressure
26.	70 040 02 01 01 The atmosphere
	The following applies for the physical properties of gases:
	at sea level a gas has 1/3 of the volume it would have at 27000 ft
	ar an altitude of 18 000 ft a gas volume is three times as large as it would be at sea-level
	water vapor saturated gas at 34 000 ft has 6 times its volume as it would have at sea-level
	at an altitute of 63 000 ft water will boil at temperature of 65°C
27.	71 040 02 01 01 The atmosphere The percentage of express in the circuit on altitude of approximately.
	The percentage of oxygen in the air at an altitude of approximately 34 000 ft is :
	21%
	5%
	10,5%
	42%

28.	81 040 02 01 01 The atmosphere
	An increase in the amount of carbon dioxide in the blood leads to:
	shortness of breath
	a decrease of acidity in the blood
	a reduction of red blood cells
	an improving resistance to hypoxia
29.	2,649 040 02 01 01 The atmosphere
	The chemical composition of the earth's atmosphere (I C A O standard atmosphere) is
	78 % nitrogen, 21 % oxygen, 0,9 % argon, 0,03 % carbon dioxide
	78 % nitrogen, 21 % oxygen, 0,9 % carbon dioxide, 0,03 % argon
	78 % nitrogen, 28 % oxygen, 0,9 % carbon dioxide, 0,03 % argon
	71 % nitrogen, 28 % oxygen, 0,9 % argon, 0,03 % carbon dioxide
30.	2,650 040 02 01 01 The atmosphere
	According to the I.C.A.O. standard atmosphere, the temperature lapse rate of the troposphere is approximately
	- 2 °C every 1000 feet
	10 °C every 100 feet
	2 °C every 1000 metres
	constant in the troposphere
31.	2,653 040 02 01 01 The atmosphere
	The barometric pressure has dropped to 1/2 of the pressure at sea level at
	18 000 feet
	10 000 feet
	25 000 feet
	30 000 feet
32.	3.541 040 02 01 01 The atmosphere
	The total pressure of a mixture of gases is equal to the sum of the partial pressures of the
	ases which compose the mixture corresponds to: Dalton's law
	Graham's law
	Henry's law
	·
	Boyle Mariotte's law

33.	6,968 040 02 01 01 The atmosphere
	The atmospheric pressure at 18,000 feet altitude is half the atmospheric pressure at sea level.
	In accordance with this statement,
	the partial oxygen pressure at that altitude will also drop to 1/2 of the pressure of oxygen at sea level
	the oxygen saturation of the blood at that altitude will drop by 50 % too
	the oxygen percentage of the air at that altitude will drop by one half also
	the partial oxygen pressure at that altitude will be doubled
34.	6,971 040 02 01 01 The atmosphere
	The volume percentage of oxygen in the atmosphere at 30.000 feet remains at 21 $\%;$ but the partial pressure of oxygen :
	decreases with decreasing barometric pressure
	remains constant, independent from altitude
	increases by expansion
	decreases significantly with lower temperatures
35.	6,974 040 02 01 01 The atmosphere
	1. Density 2. Pressure 3. Temperature 4. Humidity
	1,2 ,3
	1, 2 ,4
	2,3 ,4
	3,4
36.	6,975 040 02 01 04 The atmosphere
	Boyle's law is directly applicable in case of:
	the expansion of trapped gasses in the human body with increasing altitude
	the occurance of decompression sickness at high altitude
	the occurance of hypoxia with increasing altitude
	hyperventilation with increasing altitude
37.	6,977 040 02 01 01 The atmosphere
_	Dalton's law explains the occurance of :
	altitude hypoxia
	bends
	decompression sickness
	creeps

38.	6,978 040 02 01 01 The atmosphere
	Henry's Law explains the occurence of:
	decompression sickness
	diffusion
	hyperventilation
	hypoxia
39.	7,009 040 02 01 01 The atmosphere
	Oxygen, combined with hemoglobin in blood is transported by
	red blood cells
	platelets
	blood plasma
	white blood cells
40.	60 040 02 01 02 Respiratory and circulatory systems
	Breathing 100% oxygen at 38000 ft is equivalent to breathe ambient air at :
	10 000 ft
	8 000 ft
	14 000 ft
	18 000 ft
41.	61 040 02 01 02 Respiratory and circulatory systems
	At what altitude (breathing 100% oxygen without pressure) could symptoms of hypoxia be expected?
	Approximately 38 - 40 000 ft.
	Approximately 10 - 12 000 ft.
	22 000 ft
	Approximately 35 000 ft.
42.	63 040 02 01 02 Respiratory and circulatory systems
2	To safely supply the crew with oxygen, at which altitude is it necessary to breathe 100%
	xygen plus pressure after a rapid decompression? Approximately 38 000 ft.
	Approximately 14 000 ft.
	Approximately 20 000 ft.
	Approximately 45 000 ft.

43.	64 040 02 01 02 Respiratory and circulatory systems
	When the pilot suffers from hypothermia (loss of cabin heating):
	his need for oxygen will be increased as long as he stays conscious
	his oxygen need will not be affected
	his oxygen need will be reduced giving him a better tolerance to hypoxia at higher altitudes
	his oxygen need will be raised and his tolerance to hypoxia will be increased
44.	72 040 02 01 02 Respiratory and circulatory systems
	The respiratory process consists mainly of
	the diffusion of oxygen through the respiratory membranes into the blood, transportation to the cells, diffusion into the cells and elimination of carbon dioxide from the body
	the transportation of oxygen to the cell and the elimination of carbon monoxide
	the transportation of oxygen to the cell and the elimination of nitrogen
	the transportation of carbon dioxide to the cell and elimination of oxygen
45.	73 040 02 01 02 Respiratory and circulatory systems
	Inhaling carbon monoxide can be extremely dangerous during flying. Which of the following statement(s) is/are correct?
	Carbon monoxide is odourless and cannot be smelled.
	Carbon monoxide increases the oxygen saturation in the blood.
	With increasing altitude the negative effects of carbon monoxide poisoning will be compensated.
	Small amounts of carbon monoxide are harmless.
46.	74 040 02 01 02 Respiratory and circulatory systems
	Carbon monoxide poisoning
	is more likely to occur in aeroplanes where the cabin heat is technically supplied by coating the exhaust
	is more likely to occur in aeroplanes with twin-engines because of high engine efficiency
	only occurs in jet-driven aeroplanes
	occurs only above 15 degrees OAT
47.	75 040 02 01 02 Respiratory and circulatory systems
	in the following list you will find several symptoms listed for hypoxia and carbon monoxide poisoning. Please mark those referring to carbon monoxide poisoning.
	Headache, increasing nausea, dizziness.
	High levels of arousal, increased error proneness, lack of accuracy.
	Euphoria, accomodation problems, blurred vision.
	Muscular spasms, mental confusion, impairment of hearing

48.	76 040 02 01 02 Respiratory and circulatory systems
	Which of the following applies to carbon monoxide poisoning?
	Several days are needed to recuperate from a carbon monoxide poisoning.
	A very early symptom for realising carbon monoxide poisoning is euphoria.
	The human body shows no sign of carbon monoxide poisoning.
	Inhaling carbon monoxide leads to hyperventilation.
49.	77 040 02 01 02 Respiratory and circulatory systems
	The momentum of gas exchange in respiration is
	dependent on the pressure gradient between the participating gases during respiration
	the excess pressure caused by inhaling
	independent from the partial pressures of the participating gases
	depending on the active transportation of nitrogen into the alveoli
50.	78 040 02 01 02 Respiratory and circulatory systems
	Which component(s) is/are transporting the oxygen in the blood?
	Hemoglobin in the red blood cells.
	White blood cells.
	Plasma.
	Blood fat.
51.	79 040 02 01 02 Respiratory and circulatory systems
	Affinity to hemoglobin is best with:
	carbon monoxide
	nitrogen
	oxygen
	carbon dioxide
52.	80 049 02 01 02 Respiratory and circulatory systems
2	Which of the following is true concerning carbon monoxide?
	It is to be found in the smoke of cigarettes lifting up a smoker's " physiological altitude" ."
	It combines 5 times faster to the hemoglobin than oxygen.
	It has no physiological effect when mixed with oxygen.
	It is always present in the lungs.

53.	82 040 02 01 02 Respiratory and circulatory systems
	The rate and depth of breathing is primarily controlled by:
	the amount of carbon dioxide in the blood
	the amount of carbon monoxide in the blood
	the amount of nitrogen in the blood
	the total atmospheric pressure
54.	83 040 02 01 02 Respiratory and circulatory systems
	In the alveoli gas exchange takes place (external respiration). Which gas will diffuse from the blood into the lungs?
	Carbon dioxide.
	Ambient air.
	Oxygen.
	Carbon monoxide.
55.	84 040 02 01 02 Respiratory and circulatory systems
	Which statement is correct?
	Oxygen diffusion from the blood into the cells depends on their partial oxygen pressure gradient.
	The blood plasma is transporting the oxygen.
	The gradient of diffusion is higher at altitude than it is at sea-level.
	Oxygen diffusion from the lungs into the blood does not depend on partial oxygen pressure.
56.	86 040 02 01 02 Respiratory and circulatory systems
	"Tunnel vision" (loss of peripherical vision) can be observed if a pilot is subjected to more than:
	+ 3.5 Gz
	- 3.5 Gz
	+ 3.5 Gx
	- 3.5 Gy
57.	87 040 02 01 02 Respiratory and circulatory systems
	Grey out" can be observed if a pilot is subjected to more than:
	+ 3 Gz
	- 3 Gz
	+ 3 Gx
	+ 3 Gy

58.	88 040 02 01 02 Respiratory and circulatory systems
	The negative (radial) acceleration of an airplane affects the sitting pilot with inertia along
	the vertical body axis upwards
	the vertical body axis downwards
	the transverse body axis to the right
	the transverse body axis to the left
59.	89 040 02 01 02 Respiratory and circulatory systems
	How can a pilot increase his tolerance to +Gz ?
\boxtimes	Tightening of muscles, ducking the head and perform a kind of pressure breathing.
	Tighten shoulder harness.
	Take an upright seat position.
	Relax the muscles, ducking the head and lean upper body forward.
60.	90 040 02 01 02 Respiratory and circulatory systems
	Oxygen in the blood is primarily transported by
	the hemoglobin in the red blood cells
	the blood plasma
	attaching itself to the hemoglobin in the red blood plasma
	attaching itself to the hemoglobin in the white blood cells
61.	91 040 02 01 02 Respiratory and circulatory systems
	Large amounts of carbon dioxide are eliminated from the body when hyperventilating. This causes the blood
	to become more alkaline increasing the amount of oxygen to be attached to the hemoglobin at lung area
	to turn more acid thus eliminating more oxygen from the hemoglobin
	to accelerate the oxygen supply to the brain
	not to change at all
62.	92 040 02 01 02 Respiratory and circulatory systems
	அypoxia is caused by
	reduced partial oxygen pressure in the lung
	reduced partial pressure of nitrogen in the lung
	an increased number of red blood cells
	a higher affinity of the red blood cells (hemoglobin) to oxygen

63.	93 040 02 01 02 Respiratory and circulatory systems
	Hypoxia can be caused by: 1. low partial pressure of oxygen in the atmosphere when flying at high altitudes without pressurisation and supplemental oxygen 2. a decreased saturation of oxygen in the blood due to carbon monoxide attached to the hemoglobin 3. blood pooling in the lower extremities due to inertia (+ Gz) 4. malfunction of the body cells to metabolize oxygen (i.e. after a hangover)
	1, 2, 3 and 4 are correct
	1 and 2 are correct, 3 and 4 are false
	1 is false, 2, 3 and 4 are correct
	1, 2, 3 are correct, 4 is false
64.	94 040 02 01 02 Respiratory and circulatory systems
	A pilot will get hypoxia
	after decompression at high altitude and not taking additional oxygen in time
	after decompression to 30 000 feet and taking 100% oxygen via an oxygen mask
	if his rate of climb exceeds 5 000 ft/min
	if he is flying an unpressurized airplane at an altitude of 15 000 feet and breathing 100 % oxygen
65.	95 040 02 01 02 Respiratory and circulatory systems
	Why is hypoxia especially dangerous for pilots flying solo?
	Since the first signs of hypoxia are generally hard to detect (hypoxia of the brain), the solo pilot may not be able to react in time (i.e. activate his emergency oxygen system)
	Hypoxia does not cause a loss of control in steering the plane.
	Hypoxia improves vision at night, so the pilot will have no indication of danger.
	The pilot may loose control when he is using the oxygen mask.
66.	96 040 02 01 02 Respiratory and circulatory systems
	In the following list you find some symptoms for hypoxia and carbon monoxide poisoning. Please mark those indicating hypoxia:
$\boxtimes \Diamond$	Visual disturbances, lack of concentration, euphoria.
10)	Nausea and barotitis.
	Dull headache and bends.
	Dizziness, hypothermia.

67.	97 040 02 01 02 Respiratory and circulatory systems
	Which of the following is a/are symptom(s) of hypoxia?
	Lack of concentration, fatigue, euphoria
	Pain in the joints
	Low blood pressure
	Excessive rate and depth of breathing combined with pains in the chest area
68.	98 040 02 01 02 Respiratory and circulatory systems
	A symptom comparison for hypoxia and hyperventilation is:
	cyanosis (blue color of finger-nail and lips) exists only in hypoxia
	there are great differences between the two
	altitude hypoxia is very unlikely at cabin pressure altitudes above 10 000 ft
	symptoms caused by hyperventilation will immediately vanish when 100% oxygen is given
69.	99 040 02 01 02 Respiratory and circulatory systems
	Which statement applies to hypoxia?
	sensitivity and reaction to hypoxia varies from person to person
	carbon monoxide increases the tolerance of the brain to oxygen deficiency
	you may become immune to hypoxia when exposed repeatedly to hypoxia
	it is possible to prognose when, how and where hypoxia reaction starts to set in
70.	100 040 02 01 02 Respiratory and circulatory systems
	Hypoxia can also be caused by
\boxtimes	a lack of red blood cells in the blood or decreased ability of the hemoglobin to transport oxygen
	a lack of nitrogen in ambient air
	too much carpen dioxide in the blood
	increasing oxygen partial pressure used for the exchange of gases
71.	101 049 02 01 02 Respiratory and circulatory systems
2	Which symptom of hypoxia is the most dangerous for conducting safe flight?
	The interference of reasoning and perceptive functions.
	Dizziness.
	Lack of adaptation.
	Lack of accomodation.

72.	102 040 02 01 02 Respiratory and circulatory systems
	A pilot, climbing in a non-pressurised aircraft and without using supplemental oxygen will pass the "critical threshold" at approximately:
	22 000 ft
	16 000 ft
	18 000 ft
	38 000 ft
73.	103 040 02 01 02 Respiratory and circulatory systems
	Breathing 100% will lift the pilot's physiological safe altitude to approximately:
	38 000 ft
	10 000
	22 000 ft
	45 000 ft
74.	104 040 02 01 02 Respiratory and circulatory systems
	The most dangerous symptoms of hypoxia at altitude are
	euphoria and impairment of judgement
	hyperventilation
	sensation of heat and blurred vision
	breathlessness and reduced night vision
75.	105 040 02 01 02 Respiratory and circulatory systems
	When consciously breathing fast or hyperventilating due to high arousal or overstress, the carbon dioxide level in the blood is lowered, resulting in:
\boxtimes	less oxygen to be diffused into the cells
	a poor saturation of oxygen in the blood
	a delay in the onset of hypoxia when flying at high altitudes
	the activation of the respiratory centre, which in turn causes hypoxia
76.	106 040 02 01 02 Respiratory and circulatory systems
	With hyperventilation, caused by high levels of arousal or overstress:
	an increased amount of carbon dioxide is exhaled causing muscular spasms and even unconsciousness
	"finger nails and lips will turn blue (" cyanosis")"
	more oxygen will reach the brain
	peripherical and scotopic vision will be improved

77.	375 040 02 01 02 Respiratory and circulatory systems
	Which of the following symptoms can mark a beginning hyperventilation?
	Dizzy feeling
	Slow heart beat
	Slow rate of breathing
	Cyanosis (blueing of lips and finger nails)
78.	376 040 02 01 02 Respiratory and circulatory systems
	Out of the list of possible measures to counteract hyperventilation, the most effective measure against hyperventilation tetany is:
	breathe into a plastic or paper bag
	hold breath
	avoid strenuous flight manoeuvres
	speak soothingly and get the person to breathe slowly
79.	377 040 02 01 02 Respiratory and circulatory systems
\boxtimes	What event can cause a hyperventilation (not required by physical need)? 1. Pressure breathing. 2. Anxiety or fear. 3. Overstress. 4. Strong pain. 5. Jogging. 1,2,3 and 4 are correct, 5 is false
	Only 2 and 3 are correct
	1,2,3,4 and 5 are correct
	1and 5 are both false
80.	378 040 02 01 02 Respiratory and circulatory systems
	Which of the following could a pilot experience when he is hyperventilating? 1. Dizziness 2. Muscular spasms 3. Visual disturbances 4. Cyanosis 1.2 and 3 are correct, 4 is false 1.2 and 4 are correct, 3 is false
	1 is false, all others are correct
	2 and 4 are false

81.	379 040 02 01 02 Respiratory and circulatory systems
	A good method to treat hyperventilation is to:
	talk oneself through the relevant procedure aloud to emotionally calm down and reduce the rate of breathing simultaneously
	don an oxygen mask
	excecute the valsalva manoeuvre
	close the eyes and relax
82.	380 040 02 01 02 Respiratory and circulatory systems
	What could cause hyperventilation ?
	Fear, anxiety and distress
	Abuse of alcohol
	Extreme low rate of breathing
	Fatigue
83.	381 040 02 01 02 Respiratory and circulatory systems
	A pilot who is hyperventilating for a prolonged period of time may even get unconscious.
\boxtimes	Hyperventilation is likely to occur, when: the pilot is emotionally aroused
	there is a low CO-pressure in the blood
	he is flying a tight turn
	there is an increased blood flow to the brain
84.	382 040 02 01 02 Respiratory and circulatory systems
	Hyperventilation can cause unconsciousness, because:
	blood circulation to the brain is slowed down
	oxygen saturation of the blood is decreased
	not enough time is left to exchange oxygen in the lungs
	oxygen saturation of the blood is increased and the brain will be supplied with more blood than
85.	383 040 02 01 02 Respiratory and circulatory systems
Of the second	At what altitude (" threshold for compensatory reactions") does the human organism start with remarkable measures to compensate for the drop in pO2 when climbing? At about:
\boxtimes	6000-7000 FT
	8000-9000 FT
	9000-10000 FT
	10000-12000 FT

86.	384 040 02 01 02 Respiratory and circulatory systems
	Where is the "critical threshold" at which a pilot not using oxygen reaches the critical or lethal zone? It starts at:
	22000 FT.
	18000 FT
	It25000 FT
	It38000 FT
87.	385 040 02 01 02 Respiratory and circulatory systems
	Short term memory can already be affected when flying as low as:
	8000 FT
	12000 FT
	15000 FT
	20000 FT
88.	386 040 02 01 02 Respiratory and circulatory systems
	Breathing pure oxygen (without pressure) will be sufficient up to an altitude of:
	38000 FT
	45000 FT
	60000 FT
	80000 FT
89.	387 040 02 01 02 Respiratory and circulatory systems
	TUC (Time of Useful Consciousness) is:
	the length of time during which an individual can act with both mental and physical efficiency and alertness; measured from the moment at which he is exposed to hypoxia
	the time before becoming unconscious at a sudden pressure loss
	the time after pressure loss until decompression sickness sets in
	the time between the start of hypoxia and death
90.	338 040 02 01 02 Respiratory and circulatory systems
	The " Effective Performance Time" or " Time of Useful Consciousness" after a decompression at 35 000 ft is:
\boxtimes	between 30 and 60 seconds
	approximately 3 minutes
	approximately 5 minutes
	less than 20 seconds

91.	389 040 02 01 02 Respiratory and circulatory systems
	The time between inadequate oxygen supply and incapacitation is called TUC (Time of Useful Consciousness). It
	varies individually and depends on cabin pressure altitude
	is the same amount of time for every person
	is not dependent on physical or psychological pressure
	varies individually and does not depend on altitude
92.	391 040 02 01 02 Respiratory and circulatory systems
	After a decompression to 43 000 FT the TUC (Time of Useful Consciousness) will be approximately:
	5-15 seconds
	30-45 seconds
	45-60 seconds
	60-90 seconds
93.	392 040 02 01 02 Respiratory and circulatory systems
	Flights immediately after SCUBA-diving (compressed gas mixtures, bottles) (>10 m depth)
	are forbidden
	can be performed without any danger
	are allowed, if 38000 FT are not exceeded
	should be avoided because hypoxia may develop
94.	393 040 02 01 02 Respiratory and circulatory systems
	Pain in the Joints (""), which suddenly appear during a flight, are symptoms of
	decompression sickness
	barotrauma
	air-sickness
	WYDOXIS
95.	394 040 02 01 02 Respiratory and circulatory systems
	After a cabin pressure loss in approximately 35 000 FT the TUC (Time of Useful Consciousness) will be approximately:
	30 -90 seconds
	10-15 seconds
	3-4 minutes
	5 minutes or more

96.	395 040 02 01 02 Respiratory and circulatory systems
	You suffered a rapid decompression without the appearance of any decompression sickness symptoms. How long should you wait until your next flight?
\boxtimes	12 hours
	24 hours
	36 hours
	48 hours
97.	396 040 02 01 02 Respiratory and circulatory systems
	Flying immediately following a dive with SCUBA diving equipment (> 10 m depth)
	can cause decompression sicknesss even when flying at pressure altitudes below 18 000 FT
	prevents any dangers caused by aeroembolism (decompression sickness) when climbing to altitudes not exceeding 30 000 FT
	has no influence on altitude flights
	is forbidden for the flight crew, because it leads to hypoxia
98.	397 040 02 01 02 Respiratory and circulatory systems
	After a decompression at high altitude
	nitrogen gas bubbles can be released in the body fluids causing gas embolism, bends and chokes
	automatically oxygen is deployed into the cabin
	temperature in the cockpit will increase
	pressure differentials will suck air into the cabin
99.	398 040 02 01 02 Respiratory and circulatory systems
	In airline operations decompression sickness symptoms
	may develop after a decompression from 7000 FT cabin pressure altitude to 30000 FT flight altitude
	may develop when being decompressed from MSL to 15 000 FT
	appear only in air crew, previously engaged in diving activities
	may affect people with defect tympanic membrane
100.	399 040 02 01 02 Respiratory and circulatory systems
	Symptoms of decompression sickness
	are bends, chokes, skin manifestations, neurological symptoms and circulatory shock
	are only relevant when diving
	can only develop at altitudes of more than 40000 FT
	are flatulence and pain in the middle ear

101.	400 040 02 01 02 Respiratory and circulatory systems
	Decompression sickness symptoms may develop due to
	cabin pressure loss when flying at higher altitudes (above 18000 FT)
	sudden pressure surges in the cabin at altitudes below 18000 FT
	emergency descents after a cabin pressure loss
	fast flights from a high-pressure zone into a low pressure area when flying an unpressurized aeroplane
102.	401 040 02 01 02 Respiratory and circulatory systems
	The eustachian tube serves for the pressure equalization between
	middle ear and external atmosphere
	sinuses of the nose and external atmosphere
	nose and pharyngeal cavity and external atmosphere
	frontal, nose and maxillary sinuses
103.	402 040 02 01 02 Respiratory and circulatory systems
	Disturbances of pressure equalization in air-filled cavities of the head (nose, ear etc.) are called:
	barotrauma
	ebulism
	hypoxia
	hyperventilation
104.	403 040 02 01 02 Respiratory and circulatory systems
	Barotrauma caused by gas accumulation in the stomach and intestinals can lead to:
	pressure pain or flatulence
	barotitis
	decompresion sickness
	barosinusitis
105.	404 040 02 01 02 Respiratory and circulatory systems
	What counter-measure can be used against a barotrauma of the middle ear (aerotitis)?
	Close the mouth, pinch the nose tight and blow out thereby increasing the pressure in the mouth and throat. At the same time try to swallow or move lower jaw (Valsalva)
	Increase rate of descent
	Stop climbing, start descent
	Pilots should apply anti-cold remedies prior every flight to prevent barotrauma in the middle ear

106.	405 040 02 01 02 Respiratory and circulatory systems
	How can you determine if a person is suffering from a barotrauma of the sinuses of the nose (aerosinusitis) or the middle ear (aerotitis) ?
	Hearing difficulties will normally accompany aerotitis
	Aerosinusitis will never develop during descent
	Barotrauma of the middle ear will not effect hearing
	There is no difference
107.	406 040 02 01 02 Respiratory and circulatory systems
	Barotrauma of the sinuses of the nose (aerosinusitis)
	is caused by a difference in pressure existing between the sinus cavity and the ambient air
	is only caused by the flying sport, not by the diving sport
	is an irritation of sinuses by abuse of nose sprays
	is only caused by colds and their effects
108.	407 040 02 01 02 Respiratory and circulatory systems
	Barodontalgia
	arises especially with irritations of the sensitive tissues close to the root of a tooth
	arises only at higher altitudes and after decompression
	even arises with healthy teeth
	arises in combination with a cold and very high rates of descent
109.	408 040 02 01 02 Respiratory and circulatory systems
	At a high altitude flight (no cabin pressure system available), a pilot gets severe flatulence due to trapped gases. The correct counter-measure is:
	descend to lower altitude
	climb to a higher altitude
	"perform "valsalva maneouvre" "
	use supelemental oxygen
110.	409 040 02 01 02 Respiratory and circulatory systems
	A barotrauma of the middle ear (aerotitis)
	is more likely, when the pilot is flying with a respiratory infection and during descent
	is only caused by large pressure changes during climb
	causes severe pain in the sinuses
	is to be expected during rapid decompressions, but an emergency descent immediately following the decompression will eliminate the problem

111.	410 040 02 01 02 Respiratory and circulatory systems
	Trapped intestinal gases can cause severe pain. When is this the case?
\boxtimes	More frequent when flying above 18 000 FT in a non-pressurized aircraft.
	At lower altitudes.
	Only in pressurized aircraft when flying at higher flight levels.
	During descent as well as during climb, when the cabin pressure altitude is exceeding 2 000 FT
112.	411 040 02 01 02 Respiratory and circulatory systems
112.	Please mark the counter-measure a pilot can use against a barotrauma of the middle ear (aerotitis).
	Stop descending, climb again and then descend with reduced sink rate
	Increase the rate of descent
	"Stop chewing and swallowing movements (" Valsalva")"
	Use drugs against a cold
113.	412 040 02 01 02 Respiratory and circulatory systems
	Barotrauma of the middle ear most likely will occur
	when descending rapidly
	during a long high altitude flight
	when climbing
	in sudden steep turns
114.	413 040 02 01 02 Respiratory and circulatory systems
	Barotrauma of the middle ear is usually accompanied by
	a reduction in hearing ability and the feeling of increasing pressure
	dizziness
	noises in the ear
	pair in the joints
115.	414 040 02 01 02 Respiratory and circulatory systems
	The risk of a barotrauma of the middle ear is more likely to occur
	with colds and rapid descents
	with colds and fast climbs
	with colds and slow ascents
	after a decompression

116.	416 040 02 01 02 Respiratory and circulatory systems
	Equalization of pressure is limited between the middle ear and the ambient, when:
	the eustachian tube is blocked
	the nose is pinched
	you breath through the mouth
	barotrauma exists in the sinuses
117.	417 040 02 01 02 Respiratory and circulatory systems
	A barotrauma of the middle ear is
	an acute or chronic trauma of the middle ear caused by a difference of pressure on either side of the eardrum
	a bacterial infection of the middle ear
	a dilatation of the eustachian tube
	an infection of the middle ear caused by rapid decompression
118.	459 040 02 01 02 Respiratory and circulatory systems
	The effect of hypoxia to vision
	is stronger with the rods
	is usual stronger with the cones
	can only be detected when smoking tobacco
	does not depend on the level of illumination
119.	464 040 02 01 02 Respiratory and circulatory systems
	When oxygen is beeing transferred from the blood into the tissues and carbon dioxide from the body cells into the blood, it is called:
\boxtimes	internal respiration
	external respiration
	ventilation
	hyperventilation
120.	467 040 02 01 02 Respiratory and circulatory systems
	The eustachian tube is the passage way between the
	nasopharynx and the middle ear
	nose, pharynx and inner ear
	nose, pharynx and the external auditory canal
	sinuses and the pharynx

121.	470 040 02 01 02 Respiratory and circulatory systems
	Which part of the ear could be affected due to air pressure changes during climb and/or descent?
	The eustachian tube and the tympanic membrane (ear drum)
	The semicircular canals
	The cochlea
	The sacculus and utriculus
122.	477 040 02 01 02 Respiratory and circulatory systems
	Through which part of the ear does the equalization of pressure take place, when altitude is changed?
	Eustachian tube
	Cochlea
	Tympanic membrane
	External auditory canal
123.	509 040 02 01 02 Respiratory and circulatory systems
	Hypoxia effects visual performance. A pilot may:
	get blurred and/or tunnel vision
	have a reduction of 25% in visual acuty at 8000 FT AGL
	be unable to maintain piercing vision below 5000 FT AGL
	get colour blindness accompanied by severe headache
124.	514 040 02 01 02 Respiratory and circulatory systems
	Which of the following symptoms could a pilot get, when he is subjected to hypoxia? 1. Fatigue. 2. Euphoria. 3. Lack of concentration. 4. Pain in the joints. 5. Sensation of suffocation.
	1. 2 and 3 are correct
	4 and 5 are correct
D	1, 2, 3 and 4 are correct
	Only 5 is false
125.	2,610 040 02 01 02 Respiratory and circulatory systems
	The type of hypoxia, which occurs at altitude is a explained by:
	Dalton's law
	Boyle Mariotte's law
	Henry's law
	Graham's law

126.	2,611 040 02 01 02 Respiratory and circulatory systems
	Gaseous exchange in the human body depends on: 1. diffusion gradients between the participating gases 2. permeable membranes 3. partial pressure of oxygen in the alveolus air 4. acid-base balance in the blood
	1, 2, 3 and 4 are correct
	1, 2 and 3 are correct, 4 is false
	2 and 3 are false
	only 1 is correct
127.	2,613 040 02 01 02 Respiratory and circulatory systems
	Hyperventilation causes
	a lack of carbon dioxide in the blood
	an excess of carbon dioxide in the blood
	acidosis
	hypochondria
128.	2,614 040 02 01 02 Respiratory and circulatory systems
	Anxiety and fear can cause
	hyperventilation
	hypoxia
	spatial disorientation
	hypoglycemia
129.	2,615 040 02 01 02 Respiratory and circulatory systems
	Symptoms of decompression sickness
	sometimes can appear with a delay after the airplane is on the ground
	always begin immediately after the decompression during the flight
	normally take 2 or 3 days to appear after exposure to a hypobaric atmosphere
	disappear on landing and never appear again
130.	2,616 040 02 01 02 Respiratory and circulatory systems
K	The first effect to be noticed on gradual exposure to high positive radial accelerations is
	grey-out
	loss of consciousness
	black-out
	radivision

131.	2,654 040 02 01 02 Respiratory and circulatory systems
	Decompression sickness occurs in association with exposure to reduced atmospheric pressure. The evolution of bubbles of nitrogen coming out of solution in body tissues can be
\square	derived from: Henry's law
	Boyle Mariotte's law
	Dalton's law
	Gay Lussac's law
132.	2,655 040 02 01 02 Respiratory and circulatory systems
	The normal rate of breathing is
	20 to 30 cycles a minute
	12 to 16 cycles a minute
	32 to 40 cycles a minute
	60 to 100 cycles a minute
133.	2,656 040 02 01 02 Respiratory and circulatory systems
	The main function of the red blood cells is
	to transport oxygen
	to participate in the process of coagulation of the blood
	the cellular defense of the organism
	to contribute to the immune response of the organism
134.	2,660 040 02 01 02 Respiratory and circulatory systems
	Altitude-hypoxia, witch breathing ambient air, should not occur (indifferent phase)
	below 3 000 m
	up to 5 000 m
	between 3 000 m and 5 000 m
	between 5 000 m and 7 000 m
135.	2 665 040 02 01 02 Respiratory and circulatory systems
40)	"The Bends" as a symptom of decompression sickness consists of:
	pain in the joints
	pain in the thorax and a backing cough
	CNS-disturbances
	loss of peripheral vision

136.	2,666 040 02 01 02 Respiratory and circulatory systems
	One of the most frequent symptom(s) of decompression sickness emerging after a decompression in airline operation
	are the bends
	are the chokes
	is a shock
	are neurological damages to the CNS
137.	3,532 040 02 01 02 Respiratory and circulatory systems
	In relation to hypoxia, which of the following paraphrase(s) is (are) correct?
	This is a physical condition caused by a lack of oxygen to meet the needs of the body tissues, leading to mental and muscular disturbances, causing impaired thinking, poor judgement and slow reactions
	This is a condition of lacking oxygen in the brain causing the circulatory system to compensate by decreasing the heart rate.
	Hypoxia is often produced during steep turns when pilots turn their heads in a direction opposite to the direction in which the aircraft is turning
	This is a physical condition caused by a lack of oxygen saturation in the blood while hyperventilating.
138.	3,533 040 02 01 02 Respiratory and circulatory systems
	Hyperventilation is due to an excessive rate of breathing and can produce the following symptoms:
	dizziness, tingling sensation in the fingers and toes, nausea and blurred vision
	reduced heart rate and increase in visual acuity
	a state of overconfidence and reduced heart rate
	blue finger-nails and its
139.	3,534 040 02 0 02 Respiratory and circulatory systems
	In order to get rid of excess nitrogen following scuba diving, subsequent flights should be delayed
	24 hours
	3 hours after non decompression diving
	36 hours after any scuba diving
	48 hours after a continuous ascent in the water has been made
140.	3,542 040 02 01 02 Respiratory and circulatory systems
	The cabin pressure in airline operation is
	normally not exceeding 6 000 to 8 000 feet
	normally not exceeding 2 000 to 3 000 feet
	normally not exceeding 4 000 to 5 000 feet
	always equivalent to sea level

141.	6,896 040 02 01 02 Respiratory and circulatory systems
	Which of the folllowing statements concerning barotrauma are correct? They are:
	due to pressure differentials between gases in hollow cavities of the body and the ambient pressure
	caused by an increase in the partial pressure of oxygen associated with a decrease in altitude
	more likely to occur during ascent then during a rapid descent
	mainly associated with a sink rate which exceeds the ability of the body to balance its internal pressures
142.	6,897 040 02 01 02 Respiratory and circulatory systems
	Decompression sickness may occur as from : - 1: an altitude of more than 18,000 ft - 2: an altitude of more than 5,500 ft - 3: a rate of climb of more than 500 ft/min exceeding 18,000 ft - 4: a temperature of more than 24°C
	1,3
	2,3
	1,3,4
	2,4
143.	6,898 040 02 01 02 Respiratory and circulatory systems
	With regard to decompression sickness associated with flight, we know that :
	age, obesity and scuba diving are risk factors
	scuba diving does not pose any problem for a subsequent flight
	sex is the prime risk factor, with two out of every three women being sensitive to it
	physical activity after decompression reduces the risks of decompression sickness symptoms to appear
144.	6,900 040 02 01 02 Respiratory and circulatory systems
	The procedure to be followed in the event of decompression when flying above 10,000 ft must:
	allow for the rapid supply of oxygen in order to prevent the pilot becoming hypoxic
	allow for a rapid descent independent from sufficient supply of oxygen in order to prevent disorders due to hypoxia
	make it possible to prevent hyperventilation owing to the inhalation of 100 % oxygen
	make it possible to eliminate the risk of fogging due to the sudden pressure changes
145.	6,901 040 02 01 02 Respiratory and circulatory systems
	What is the "Time of Useful Consciousness" for a rapid decompression at 25,000 ft ?
	Between 3 and 5 minutes depending on the physical activities of the subjected pilot
	About 18 seconds
	Between 25 seconds and 1 minute 30 seconds
	About 30 seconds

146.	6,902 040 02 01 02 Respiratory and circulatory systems
	The Time of Useful Consciousness may vary according to : 1 : physical activity of the subjected crew
	2 : the experience of the pilot on the type of aircraft in question3 : the strength and time of decompression4 : the cabin temperature
	1,3
	1,2
	3,4
	4
147.	6,903 040 02 01 02 Respiratory and circulatory systems
	During a climb, we can observe the following with regard to the partial oxygen pressure :
	an identical decrease to that for atmospheric pressure
	a decrease which is three times faster than the decrease in atmospheric pressure
	an increase up to 10,000 ft followed by a sudden pressure drop above that altitude
	an increase which is inversely proportional to the decrease in atmospheric pressure
148.	6,904 040 02 01 02 Respiratory and circulatory systems
	The following may occur during gradual depressurisation between 12,000 and 18,000 ft :
	a loss of coordination associated with latigue and headache
	a rapid decrease in blood pressure which will lead to headache and also to a loss of coordination
	sudden visual hyperacuity associated with headache
	a rapid decrease in blood pressure leading to considerable somnolence
149.	6,920 040 02 01 02 Respiratory and circulatory systems
	What is the main problem caused by positive (+Gz) accelerations?
	A pooling of blood in the lower portions of the body, and hence less blood available
	An improvement of peripheral vision
	An increase in blood pressure in the upper part of the body (above heart-level)
	Hyperoxygenation of the blood which may lead to sensory disorders
156.	6,921 040 02 01 02 Respiratory and circulatory systems
	What type of acceleration has the most significant physiological effect upon the pilot?
	Radial acceleration (+ Gz)
	Linear acceleration (+ Gx)
	Transverse acceleration (+ Gy)
	Combined linear and transverse acceleration

151.	6,924 040 02 01 02 Respiratory and circulatory systems
	Incapacitation caused by barotrauma from gaseous expansion after decompression at high altitude may be associated with the following part(s) of the body: 1 the digestive tract 2 the ears
	3 the eyes 4 the sinuses
\boxtimes	1
	1,2,3
	2,3,4
	2,4
152.	6,926 040 02 01 02 Respiratory and circulatory systems
	Of the following alternatives, which objective effects are due to positive acceleration (+
	Gz)? - 1: Decrease in heart rate
	- 2: Pooling of blood into lower parts of the body
	- 3: Drop in blood pressure above heart-level - 4: Downward displacement or deformation of soft or mobile organs
	2,3,4
	1,2,3
	1
	1,3,4
153.	6,927 040 02 01 02 Respiratory and circulatory systems
	What is hypoxia?
	Any condition where the oxygen concentration of the body is below normal limits or where the oxygen available to the body cannot be used due to some pathological condition
	The total absence of oxygen in the air
	The respiratory symptom associated with altitude decompression sickness
	A state characterised by an excessive supply of oxygen which may be due to maladjustment of the mask
154.	5,931 040 02 01 02 Respiratory and circulatory systems
	What could be symptoms of hypoxia (when flying without oxygen) above 12,000 ft?
	Headache, fatigue, dizziness, lack of coordination
	Headache, thirst, somnolence, collapse
	Euphoria, headache, improvement in judgement, loss of consciousness
	Trembling increase in body temperature, convulsions slowing of the rate of breathing

155.	6,948 040 02 01 02 Respiratory and circulatory systems
	What is the procedure above 10.000 ft altitude when faced with explosive decompression?
	Don an oxygen mask and descend to below 10,000 ft
	First inform ATC
	Descend to below 10,000 ft and signal an emergency
	Check the cabin altitude, don an oxygen mask and maintain level flight
156.	6,949 040 02 01 02 Respiratory and circulatory systems
	What is the average Time of Useful Consciousness after a rapid decompression at 40,000 ft ?
	About 12 seconds
	Between 20 seconds and 1 minute
	About 40 secods
	More than 1 minute
157.	6,950 040 02 01 02 Respiratory and circulatory systems
	What is the Time of Useful Consciouness?
	The length of time during which an individual and act with both mental and physical efficiency and alertness, measured from the moment at which he loses his available oxygen supply
	The time taken to become aware of hypoxia due to gradual decompression
	The pilot's reaction time when faced with hypoxia
	The period of time between the start of hypoxia and the moment that the pilot becomes aware o it
158.	6,952 040 02 01 02 Respiratory and circulatory systems
	What are the main dinical signs of hypoxia during explosive decompression?
	Increase in heart and respiratory rates, euphoria, impairment of judgement, memory disorders
	Headaches, tatigue, somnolence, palpitations
	Increase in heart rate, decrease in body temperature impairment of judgement
	Headaches, articular pain, speeding-up of the respiratory rate, memory disorders
159.	6,953 040 02 01 02 Respiratory and circulatory systems
	Which is the procedure to be followed when symptoms of decompression sickness occur?
	Descend to the lowest possible level and land as soon as possible
	Descend to the lowest possible level and wait for the symptoms to disappear before climbing again
	Only medical treatment is of use
	Only the prompt supply of oxygen is necessary

160.	6,954 040 02 01 02 Respiratory and circulatory systems
	What is decompression sickness?
	An sickness resulting from the formation of nitrogen bubbles in bodily tissues and fluids after a cabin pressure loss at high altitude
	A frequent disorder in commercial aviation due to the pressurisation curve of modern aircraft
	A disorder which is solely encountered below 18,000 ft
	The formation of air bubbles in bodily tissues, with no consequences for people's capabilities
161.	6,955 040 02 01 02 Respiratory and circulatory systems
	Which of the following statements are correct: -1: Scuba diving may be practiced without restriction -2: Many medicines have effects which are incompatible with flight safety -3: An adequate amount of fluid should be drunk when flying
\square	-4: Diet has no repercussion on health 2 and 3 are correct
	1, 2 and 3 are correct
	2, 3 and 4 are correct
	1, 3 and 4 are correct
162.	6,969 040 02 01 02 Respiratory and circulatory systems
	You climb from 0 to 50.000 ft and measure the decrease of the pressure per 5.000 ft. The absolute difference in barometric pressure is greatest between:
	0 and 5.000 feet
	5.000 and 10.000 feet
	10.000 and 15.000 feet
	45.000 and 50.000 feet
163.	6,970 040 02 03 02 Respiratory and circulatory systems
	Physiological problems due to increasing altitude are caused by :
	decreased atmospherical pressure
	disorientation
	accelerations
	increased atmospherical pressure
164.	6,972 040 02 01 02 Respiratory and circulatory systems
	Air at an altitude of 18.000 feet contains, approximately :
	21% oxygen
	5% oxygen
	15% oxygen
	10% oxygen

165.	6,973 040 02 01 02 Respiratory and circulatory systems
	Dry air is a mixture of gases. Their volume percentage is about:
	21% oxygen,78% nitrogen, 1% other gases
	18% oxygen, 80% nitrogen, 2% other gases
	19% oxygen, 80% nitrogen, 1% other gases
	25% oxygen, 74% nitrogen, 1% other gases
166.	6,997 040 02 01 02 Respiratory and circulatory systems
	Under normal circumstances, which gas will diffuse from the blood to the alveoli:
	carbon dioxide
	carbon monoxide
	nitrogen
	oxygen
167.	7,001 040 02 01 02 Respiratory and circulatory systems
	In the pulmonary artery there is :
	oxygen poor and carbon dioxide rich blood
	oxygen poor and carbon dioxide poor blood
	oxygen rich and carbon dioxide poor blond
	oxygen rich and carbon dioxide rich blood
168.	7,004 040 02 01 02 Respiratory and circulatory systems
	The thin walls of capillaries are permeable for :
	gases
	platelets
	protein
	red blood cells
169.	7.005 040 02 01 02 Respiratory and circulatory systems
	The circulatory system, among other things, allows for : 1. transportation of oxygen and carbon dioxide 2. transportation of information by chemical substances
	1 and 2 are correct
	1 is correct and 2 is false
	1 is false and 2 is correct
	both are false

170.	7,008 040 02 01 02 Respiratory and circulatory systems
	The part of blood without cell is called :
	plasm
	lymph
	serum
	water
171.	7,011 040 02 01 02 Respiratory and circulatory systems
	Haemoglobin is:
	in the red blood cells
	in the platelets
	dissolved in the plasma
	in the white blood cells
172.	8,186 040 02 01 02 Respiratory and circulatory systems
	Someone who has anaemia has:
	not enough functional hemoglobin
	not enough functional hemoglobin not enough platelets not enough plasma
	not enough plasma
	not enough white blood cells
173.	8,188 040 02 01 02 Respiratory and circulatory systems
	The average pulse of a healthy adult in rest is about:
	60 to 80 beats/min
	30 to 50 beats/min
	90 to 100 beats/min
	110 to 150 beats/min
174.	8,190 040 02 01 02 Respiratory and circulatory systems
	Pulse rate is influenced by the following factors: Adrenalin Cortisol
	1,3 and 4 are correct, 2 is false
	1,2,3 and 4 are correct
	2,3 and 4 are correct, 1 is false
	1,2 and 4 are correct, 3 is false
	·

175.	8,191 040 02 01 02 Respiratory and circulatory systems
	With a heart rate of 72 beats per minute and a stroke volume of 70 ml the cardial output is about:
	5 liters/min
	6 liters/min
	7 liters/min
	8 liters/min
176.	8,192 040 02 01 02 Respiratory and circulatory systems
	At rest the cardial output (the quantity of blood the heart pumps in one minute) of an adult is approximately:
	5 liters/min
	450 ml/min
	45 liters/min
	75 liters/min
177.	8,193 040 02 01 02 Respiratory and circulatory systems
	The heart muscle is supplied with blood from:
	the coronary arteries
	the auricles
	ventricles
	the pulmonary veins
178.	8,195 040 02 01 02 Respiratory and circulatory systems
	The normal arterial blood-pressure of a healthy adult is (systolic/diastolic):
	120/80 mm Hg
	80/20 mm Hg
	180/120 mm) ig
	220/180 mm Hg
179.	8,196 040 02 01 02 Respiratory and circulatory systems
	Which of the following statements is correct? The blood-pressure which is measured during flight medical checks is the pressure
	in the artery of the upper arm (representing the pressure at heart level)
	in all the blood-vessels of the body (representing the pressure in the whole body)
	in the mussles of the upper arm
	in the veins of the upper arm

180.	8,198 040 02 01 02 Respiratory and circulatory systems
	Blood-pressure depends on: 1. the cardiac output 2. the resistance of the capillaries (peripheral resistance)
	1 and 2 are correct
	1 is correct 2 is false
	1 is false 2 is correct
	1 and 2 are both false
181.	8,199 040 02 01 02 Respiratory and circulatory systems
	The blood-pressure depends on: 1. the work of the heart 2. the peripheral resistance 3. the elasticity of the arterial walls 4. the bloode volume and viscosity
	1,2,3 and 4 are correct
	1,2 and 3 are correct, 4 is false
	1,3 and 4 are correct, 2 is false
	2,3 and 4 are correct, 1 is false
182.	8,200 040 02 01 02 Respiratory and circulatory systems
	Changes in blood-pressure are measured by:
	pressoreceptors
	arteriols
	adrenal glands
	pacemakers
183.	8,201 040 02 01 02 Respiratory and circulatory systems
	The pressoreceptors are located in
	the carotid and aortic arterial vessels
	the intestines
	the heart
(D)	the lungs

184.	8,203 040 02 01 02 Respiratory and circulatory systems
	When the pressoreceptors signal a lowering of the blood-pressure there are adaptation mechanisms which result in: 1. an increase of respiratory activity 2. the arteriols to constrict 3. an increase of cardiac output 4. the heart rate to rise
	2,3 and 4 are correct, 1 is false
	1,3 and 4 are correct, 2 is false
	1,2 and 4 are correct, 3 is false
	1,2 and 3 are correct, 4 is false
185.	8,204 040 02 01 02 Respiratory and circulatory systems
	The physiological effects of accelerations to the human body depend on: 1. the duration of the G-forces 2. the onset rate of the G-forces 3. the magnitude of the G-forces 4. the direction of the G-forces.
	1,2,3 and 4 are correct
	1,2,3 are correct, 4 is false
	2,3 and 4 are correct, 1 is false
	1and 4 are correct, 3 is false
186.	8,205 040 02 01 02 Respiratory and circulatory systems
	Inertia in the direction head reet will cause the blood-pressure in the brain to:
	decrease
	remain constant
	increase
	first increase, then decrease
187.	8,207 040 02 01 02 Respiratory and circulatory systems
	During sustained positive G-forces the order of symptoms you can expect is:
$\boxtimes 2$	grey-out, tunnel vision, black-out and unconsciousness.
	unconsciousness, black-out, tunnel vision and grey out.
	black-out, grey-out, tunnel vision and unconsciousness.
	grey-out, unconsciousness, black-out and tunnel vision

188.	8,209 040 02 01 02 Respiratory and circulatory systems
	Which of the following measures can reduce the chance of a black-out during positive G-manoeuvres?
	A tilt back seat.
	Breathing oxygen.
	Sit in upright position and keep relaxed.
	Hyperventilation.
189.	8,210 040 02 01 02 Respiratory and circulatory systems
	The normal rate of breathing of an adult at rest is about:
	16 cycles per minute
	4 cycles per minute
	32 cycles per minute
	72 cycles per minute
190.	8,211 040 02 01 02 Respiratory and circulatory systems
	The volume of air beeing exchanged during a normal breathing cycle (tidal volume) is about:
	500 ml of air
	350 ml of air
	150 ml of air
191.	75 ml of air 8,212 040 02 01 02 Respiratory and circulatory systems
191.	When exhaling, the expired air contains:
\bowtie	more carbon dioxide than the inspired air
	more nitrogen than the inhaled air
	less water vapour than the inhaled air
	more oxygen than the inhaled air
192.	8,213 040 02 01 02 Respiratory and circulatory systems
	The primary factor to control the rate and depth of breathing is the:
	pressure of carbon dioxide in the blood
	partial pressure of nitrogen
	partial pressure of oxygen in the blood
	total air pressure in the blood

193.	8,214 040 02 01 02 Respiratory and circulatory systems
	The transfer of oxygen from the alveoli to the blood can be discribed by:
	the law of diffusion
	Boyle's Law
	Dalton's Law
	Henry's Law
194.	8,215 040 02 01 02 Respiratory and circulatory systems
	The transfer of carbon dioxide from the blood to the alveoli can be described by:
	the law of diffusion
	Boyles Law
	Dalton's Law
	Henry's Law
195.	8,217 040 02 01 02 Respiratory and circulatory systems
	The partial pressure of carbon dioxide in the alveoli is:
	lower than in the blood
	almost the same as in the atmospheric air
	higher than the pressure of carbon dioxide in the blood
	lower than the pressure of carbon dioxide in the atmospheric air.
196.	8,221 040 02 01 02 Respiratory and circulatory systems
	The symptoms of hyperventilation are caused by a:
	surplus of CO2 in the blood
	surplus of O2 in the blood
	shortage of CO in the blood
	shortage of CO2 in the blood
197.	8,224 040 02 01 02 Respiratory and circulatory systems
2	A pressurized cabin helps to prevent:
	1. decompression sickness 2. the problem of expansion of gases in the intestines
	3. hypoxia
	4. coronary desease
	1, 2 and 3 are correct.
	1, 2 and 4 are correct.
	2, 3 and 4 are correct.
	1, 3 and 4 are correct.

198.	8,225 040 02 01 02 Respiratory and circulatory systems
	Healthy people are usually capable to compensate for a lack of oxygen up to
	10.000 - 12.000feet
	15.000 feet
	20.000 feet
	25.000 feet
199.	8,226 040 02 01 02 Respiratory and circulatory systems
	When flying above 10.000 feet hypoxia arises because:
	the partial oxygen pressure is lower than at sea level.
	the composition of the blood changes
	the composition of the air is different from sea level
	the percentage of oxygen is lower than at sea level
200.	8,227 040 02 01 02 Respiratory and circulatory systems
	Saturation of oxygen in the blood at sea level is 98%. This saturation decreases with: 1. decreasing air pressure 2. carbon monoxide poisoning 3. increasing altitude 4. increasing air pressure
	1, 2 and 3 are correct, 4 is false
	1, 2 and 4 are correct, 3 is false
	2, 3 and 4 are correct, 1 is false
	1, 3 and 4 are correct, 2 is talse
201.	8,229 040 02 01 02 Respiratory and circulatory systems
	Hypoxia is a situation in which the cells
	have a shortage of oxygen
	are saturated with nitrogen
	are saturated with oxygen
	have a shortage of carbon dioxide
202.	8,230 040 02 01 02 Respiratory and circulatory systems
	The severity of hypoxia depends on the: 1. rate of decompression 2. physical fitness 3. flight level 4. individual tolerance
\bowtie	1,2,3 and 4 are correct
	1,2 and 3 are correct, 4 is false
	2,3 and 4 are correct, 1 is false
	1 and 3 are correct, 2 and 4 are false

203.	8,231 040 02 01 02 Respiratory and circulatory systems
	Which of the following statements concerning hypoxia is correct?
\boxtimes	It is a potential threat to safety.
	It is never a problem at altitudes below 25.000 ft.
	It activates the senses and makes them function better.
	It has little effect on the body, because the body can always compensate for it.
204.	8,232 040 02 01 02 Respiratory and circulatory systems
	Early symptoms of hypoxia could be: 1. euphoria
	2. decreased rate and depth of breathing 3. lack of concentration 4. visual disturbances
	1,3 and 4 are correct
	1,2,3 and 4 are correct
	1,2 and 3 are correct
	1,2 and 4 are correct
205.	8,233 040 02 01 02 Respiratory and circulatory systems
	One of the most dangerous symptoms of hypoxia concerning flight safety is:
	impaired judgement, disabling the pilotto recognize the symptoms
	reduced coordination of limb movements, causing the pilot to spin
	cyanosis, reducing then pilots ability to hear
	hyperventilation, causing emotional stress
206.	8,234 040 02 01 02 Respiratory and circulatory systems
	Which of the following symptoms can indicate the beginning of hypoxia? 1. Blue lips and finger nails. 2. Euphoria. 3. Flatulence. 4. Unconsciousness
	1 2 and 4 are correct.
	1, 2 and 3 are correct.
12)	2, 3 and 4 are correct.
	1, 3 and 4 are correct.
207.	8,235 040 02 01 02 Respiratory and circulatory systems
	Among the functions below, which is the most sensitive to hypoxia?
	Night vision.
	Motor coordination.
	Hearing.
	Speech.

208.	8,236 040 02 01 02 Respiratory and circulatory systems
	You are crossing the Alps in a non-pressurised aircraft at an altitude of 15.000 feet. You do not use the oxygen mask because you feel fine. This is unsafe, because:
	your judgement could be impaired
	the blood-pressure can get too high
	the blood-pressure can get too low
	you will get the bends
209.	8,237 040 02 01 02 Respiratory and circulatory systems
	During a night flight at 10,000 feet you notice that your acuity of vision has decreased. In this case you can increase your acuity by:
	breathing extra oxygen through the oxygen mask.
	closing one eye
	scanning sectors of the field of vision
	dim the instrument lights
210.	8,238 040 02 01 02 Respiratory and circulatory systems
	During flight all crewmembers have one or more of the following symptoms: 1. blue lips 2. mental disturbances 3. tingling sensations in arms and/or legs 4. reduction of peripheral vision Which is the possible cause?
	Hypoxia. Glaucoma.
	Hypothermia.
	Hypoglycaemia.
211.	8,239 040 02 01 02 Respiratory and circulatory systems
	Which measure(s) will help to compensate hypoxia? 1. Descend below 10 000 FT. 2. Breathe 100 % oxygen. 3. Climb to or above 10 000 FT. 4. Reduce physical activities.
	, 2 and 4 are correct
	1, 2 and 3 are correct
	only 1 is correct
	1 and 2 are correct, 3 and 4 are false

212.	8,240 040 02 01 02 Respiratory and circulatory systems
	Hypoxia can be prevented when the pilot
	is using additional oxygen when flying above 10.000 feet
	is relying on the body's built in warning system recognizing any stage of hypoxia
	is swallowing, yawing and applying the Valsalva method
	will not exceed 20 000 FT cabin pressure altitude
213.	8,241 040 02 01 02 Respiratory and circulatory systems
	Hypoxia can occur because:
	you are hyperventilating
	you are getting toomuch solar radiation
	you inhale too much nitrogen
	the percentage of oxygen is lower at altitude
214.	8,244 040 02 01 02 Respiratory and circulatory systems
	You should not despense blood without prior information from your flight surgeon. The most important reason for this advise is:
	you are more susceptible to hypoxia after a blood donation.
	the chance you get the bends is higher after blood-donation
	your blood-pressure is too low after blood-donation
	your heart frequency is too low after blood-donation
215.	8,245 040 02 01 02 Respiratory and circulatory systems
	Hyperventilation is:
	an increased lung ventilation
	a too high percentage of nitrogen in the blood
	a decreased ung ventilation
	a too high percentage of oxygen in the blood.
216.	8.246 040 02 01 02 Respiratory and circulatory systems
	Hyperventilation is:
	a normal compensatory physiological reaction to a drop in partial oxygen pressure (i.e. when climbing a high mountain)
	an accellerated heart frequency caused by an increasing blood pressure
	an accellerated heart frequency caused by a decreasing blood-pressure
	a reduction of partial oxygen pressure in the brain

217.	8,248 040 02 01 02 Respiratory and circulatory systems
	If somebody starts breathing faster and deeper without physiological need
	the blood turns less more alkaline
	the blood turns more acid
	the acid-base balance of the blood will not change
	the blood pressure in the brain will rise significantly
218.	8,249 040 02 01 02 Respiratory and circulatory systems
	During running your muscles are producing more CO2, raising the CO2 level in the blood. The consequence is:
	hyperventilation (the rate and depth of breathing will increase)
	cyanosis
	hypoxia
	vertigo
219.	8,254 040 02 01 02 Respiratory and circulatory systems
	During a final approach under bad weather conditions, you feel dizzy, get tingling sensations in your hands and a rapid heart (atc.) These symptoms could indicate:
	hyperventilation
	disorientation
	hypoxia
	carbon monoxide poisoning
220.	8,255 040 02 01 02 Respiratory and circulatory systems
	During final approach under bad weather conditions you are getting uneasy, feel dizzy and get tingling sensations in your hands. When hyperventilating you should
	control your rate and depth of breathing
	descend
	apply the Valsalva method
	use the oxygen mask
221.	8,257 040 02 01 02 Respiratory and circulatory systems
\Diamond	A pilot can overcome hyperventilation by:
	controlling the rate and depth of breathing, breathing into a bag or speaking with a loud voice
	depending on instruments
	increasing the rate and depth of breathing to eliminate harmful carbon dioxide
	the use of drugs stabilizing blood pressure

222.	8,259 040 02 01 02 Respiratory and circulatory systems
	You can overcome hyperventilation by breathing into a plastic or paper bag. The intention is:
	to raise the level of CO2 in the blood as fast as possible
	to prevent you from exhaling too much oxygen
	to increase the amount of nitrogen in the lung
	to reduce blood pressure
223.	8,363 040 02 01 02 Respiratory and circulatory systems
	A passenger complains about a painful inflated belly at 8.000 feet. You advise him to: 1. unbuckle and massage the belly 2. stand up and let go the gases out of the intestines 3. eat less gas forming food and avoid carbonhydrated beverages before flight in the future 4. drink a lot of water throughout the flight
	1, 2 and 3 are correct
	2, 3 and 4 are correct
	1 and 3 not advisable
	only 4 is correct
224.	8,364 040 02 01 02 Respiratory and circulatory systems
	On ascent the gases in the digestive tract will
	expand
	stay the same
	shrink
	be absorbed by tissues and blood
225.	8,368 040 02 01 02 Respiratory and circulatory systems
	Pain in the middle ear during descent may be eased by:
	leveling of and possibly climbing
	Stocking the effected ear with the palm of your hand
	increasing the rate of descent
	using an oxygen mask

226.	8,370 040 02 01 02 Respiratory and circulatory systems
	The occurrence of pain in the joints (bends) during decompression can be explained by the principle that:
	the quantity of a gas dissolved in a fluid is proportional to the pressure of that gas above the fluid (Henry's Law)
	a volume of gas is inversely proportional to the pressure of this gas at constant temperature (Boyle's law)
	the total pressure of a mixture of gases is equal to the sum of the partial pressures of the separate gases (Dalton's Law)
	the molecules of a gas will move from an area of higher concentration or partial pressure to an area of lower concentration or partial pressure (law of diffusion)
227.	8,372 040 02 01 02 Respiratory and circulatory systems
	Pain in the joints caused by gas bubbles following a decompression is called:
\boxtimes	bends
	chokes
	creeps
	leans
228.	8,373 040 02 01 02 Respiratory and circulatory systems
	Which symptom does not belong to the colowing list:
	leans
	bends
	chokes
229.	8,374 040 02 01 02 Respiratory and circulatory systems
	The symptoms caused by gas bubbles under the skin following a decompression are called:
	creeps
	bends
	chokes
	leans
230	8,375 040 02 01 02 Respiratory and circulatory systems
	Symptoms caused by gas bubbles in the lungs, following a decompression are called:
	chokes
	bends
	creeps
	leans

231.	8,376 040 02 01 02 Respiratory and circulatory systems
	Some hours after a rapid decompression at FL 300 you experience pain in the joints. Which of following answers is correct?
	You should ask for medical advice (flight surgeon) since this is a symptom of decompression sickness.
	This symptom indicates decompression sickness and will disappear when you take some exercise.
	This phenomenon is treated by physiotherapy.
	This phenomenon is treated by breathing 100% nitrogen.
232.	8,377 040 02 01 02 Respiratory and circulatory systems
	Tolerance to decompression sickness is decreased by: 1. SCUBA-Diving 2. Obesity 3. Age
	4. Body height
	1, 2 and 3 are correct
	2 and 4 are correct
	1, 3 and 4 are correct
	only 4 is correct
233.	8,378 040 02 01 02 Respiratory and circulatory systems
	Decompression symptoms are caused by:
	dissolved gases from tissues and fluids of the body
	low carbon dioxide pressure of inhaled air
	low oxygen pressure of inhaled air
	release of locked gases from joints
234.	8,386 040 02 01 02 Respiratory and circulatory systems
	In the event of rapid decompression the first action for the flight deck crew is:
\boxtimes	don oxygen masks and ensure oxygen flow
	descent to the higher of 10000 ft or MSA
	transmit mayday call
	carry out check for structural damage
235.	8,389 040 02 01 02 Respiratory and circulatory systems
	After a rapid decompression at an altitude of 30.000 FT the first action of the pilot shall be:
	maintaining aircraft control and preventing hypoxia (use of oxygen mask)
	informing ATC
	informing the cabin crew
	preventing panic of the passengers

236.	8,390 040 02 01 02 Respiratory and circulatory systems
	The following actions are appropriate when faced with symptoms of decompression sickness: 1. climb to higher level 2. descent to the higher of 10000 ft or MSA and land as soon as possible 3. breathe 100 % oxygen 4. get medical advice about recompression after landing
	2, 3 and 4 are correct
	1, 2 and 3 are correct
	1 and 4 are correct
	1 and 3 are correct
237.	8,393 040 02 01 02 Respiratory and circulatory systems
	Decompression sickness can be prevented by: 1. avoiding cabin altitudes above 18 000 FT 2. maintaining cabin pressure below 8 000FT when flying at high altitudes 3. performing physical exercises before and during the flight 4. breathing 100 % oxygen for 30 min prior and during the flight
	1, 2 and 4 are correct
	1, 2 and 3 are correct
	2 and 3 are correct, 4 is false
	only 3 is correct
238.	8,395 040 02 01 02 Respiratory and circulatory systems
	What is the TUC at 20 000 FT?
	about 30 minutes
	1 to 2 minutes
	1to 2 hours
	5 to 10 minutes
239.	8.396 040 02 01 02 Respiratory and circulatory systems
	Following a rapid decompression at 30.000 feet, the time of useful consciousness would be about:
	1 to 2 minutes
	3 to 5 minutes
	5 to 10 minutes
	10 to 12 minutes

240.	8,397 040 02 01 02 Respiratory and circulatory systems
	After a rapid decompression at 35 000 feet, the time of useful consciousness is about:
	30 to 60 seconds
	15 seconds or less
	5 minutes.
	10 minutes.
241.	8,399 040 02 01 02 Respiratory and circulatory systems
	After SCUBA diving (more than 30 feet of depth) you have to wait a period of time before flying again. This period is at least:
	24 hours
	6 hours
	12 hours
	48 hours
242.	8,400 040 02 01 02 Respiratory and circulatory systems
	Flying immediately after SCUBA diving involves the risk of getting:
	decompression sickness without having a decompression
	hyperventilation
	hypoxia
	stress
243.	8,454 040 02 01 02 Respiratory and circulatory systems
	If someone hyperventilates due to stress his blood will get:
	more alkaline
	less satured with oxygen
	more satured with carbon dioxide
	more acid
244.	8,457 040 02 01 02 Respiratory and circulatory systems
	which phenomenon is common to hypoxia and hyperventilation?
	fingling sensations in arms or legs.
	Cyanosis (blueing of lips and finger-nails).
	Severe headache.
	Euphoria.

245.	8,460 040 02 01 02 Respiratory and circulatory systems
	 Euphoria can be a symptom of hypoxia. Someone in an euphoric condition is more prone to error.
	1 and 2 are both correct
	1 is correct, 2 is not correct
	1 is not correct, 2 is correct
	1 and 2 are both not correct
246.	2,648 040 02 01 03 High altitude environment
	The ozone-layer is situated in the
	stratosphere
	troposphere
	thermosphere
	ionosphere
247.	6,891 040 02 01 03 High altitude environment
	With regard to the humidity of air in current in a pressurized cabin, we know that it : -1 : varies between 40 and 60% -2 : varies between 5 and 15% -3 : may cause dehydration effecting the performance of the crew -4 : has no special effects on crew members
	2,3
	1,3
	2,3,4
	1,4
248.	6,941 040 02 01 03 High altitude environment
	Which of the following statements are correct? -1: Modern aircraft allow for 50 - 60% relative humidity in the cabin air under any conditions of flight, which is satisfactory for the body -2: Thirst is a belated symptom of dehydration -3: Dehydration may lead to clinical manifestations such as dizziness and fatigue -4: Drinking excessive quantities of water must be avoided since resistance to periods of low hydration will otherwise be lost
	2,3
	2,3,4
	1,2,4
	1,4

249.	6,947 040 02 02 00 Man and Environment: the sensory system
	Which of the following statements is correct?
	70% of information processed by man enters via the visual channel
	Hearing is the sense which collects most information in man
	40% of information processed by man enters via the visual channel
	The kinesthetic channel provides the most important information for flying
250.	2,707 040 02 02 01 Central and peripheral nervous system
	Once we have constructed a mental model we tend
	to give undue weight to information that confirms the model
	to give undue weight to information that contradicts the model
	to give equal weight to contradicting and confirming information
	to alter that model unnecessarily frequently
251.	8,218 040 02 02 01 Central and peripheral nervous system
	The rate and depth of breathing is primary regulated by the concentration of:
	carbon dioxide in the blood
	nitrogen in the air
	water vapour in the alveoli
	oxygen in the cells
252.	8,263 040 02 02 01 Central and peripheral nervous system
	Rising the perceptual threshold of a sensory organ means:
	a lesser sensitivity
	a greater sensitivity
	a greater selectivity
	a lesser selectivity
253.	8,267 049 02 02 01 Central and peripheral nervous system
2	Subcutaneous pressure receptors are stimulated by:
	the pressure created on the corresponding body parts when sitting, standing or lying down
K	a touch on the skin indicating the true vertical
	environmental stressors
	the condition of the body itself

254.	8,268 040 02 02 01 Central and peripheral nervous system
	The kinesthetic sense does not orient an individual to his surroundings, but informs him of
	the relative motion and relative position of his body parts
	a touch on the skin
	our surroundings
	the condition in the body itself
255.	8,269 040 02 02 01 Central and peripheral nervous system
	A stereotype and involuntary reaction of the organism on stimulation of receptors is called:
	reflex
	data processing
	control system
	change of stimulation level
256.	424 040 02 02 02 Vision
	What should a pilot do to keep his night vision (scotopic vision)?
	Not smoke before start and during flight and avoid flash-blindness
	Avoid food containing high amounts of vitamin A
	Wait at least 60 minutes to night-adapt before he takes off
	Select meals with high contents of vitamin B and C
257.	425 040 02 02 02 Vision
	Why should a pilot turn his attention to the instruments when approaching on a snowed up, foggy or cloud winterday? Because
\boxtimes	perception of distance and speed is difficult in an environment of low contrast
	his attention will be distracted automatically under these conditions
	"the danger of a " greying out" will make it impossible to determine the height above the terrain"
	pressure differences can cause the altimeter to give wrong information
258.	428 040 02 02 02 Vision
	illuminated anti-collision lights in IMC
	can cause disorientation
	can cause colour-illusions
	will improve the pilots depth perception
	will effect the pilots binocular vision

259.	429 040 02 02 02 Vision
	A shining light is fading out (i. e. when flying into fog, dust or haze). What kind of sensation could the pilot get?
	The source of light moves away from him
	The source of light stands still
	The source of light is approaching him with increasing speed
	The light source will make the pilot believe, that he is climbing
260.	430 040 02 02 02 Vision
	To prevent the " autokinetic phenomena", the following can be done:
	look out for additional references inside and/or outside the cockpit using peripheral vision also
	fixate the source of light, first with one eye, then with the other
	look sideways to the source of light for better fixation
	turn down cabin light and shake head simultaneously
261.	431 040 02 02 02 Vision
	Autokinesis is
	the apparent movement of a static single light when stared at for a relatively long period of time in the dark
	the phenomenon of spinning lights after the abuse of alcohol
	the change in diameter of the pupil, when looking in the dark
	the automatical adjustment of the crystalline lens to objects situated at different distances
262.	434 040 02 02 02 Vision
	The time for dark adaptation is
	30 min
	10 sec
	1/10 sec
	10 min
263.	439 040 02 02 02 Vision
	sunglasses with variable filtration (phototrope glasses)
	can have disadvantages when used in the cockpit due to their dependence on ultraviolet light which is screened by the cockpit glass
	are generally forbidden for pilots
	are ideal, as long as there are no polarisation effects
	are advantageous for pilots

264.	441 040 02 02 02 Vision
	What misjudgement may occur if an airplane is flying into fog, snow or haze?
	Objects seem to be farther away than in reality
	Objects will appear closer than they really are
	Objects will appear bigger in size than in reality
	Objects seem to move slower than in reality
265.	442 040 02 02 02 Vision
	Depth perception when objects are close (< 1 m) is achieved through
	seeing with two eyes (binocular vision)
	good visibility only
	visual memory only
	"the " blind spot" at the retina"
266.	443 040 02 02 02 Vision
	Adaptation is
	the adjustment of the eyes to high or low levels of illumination
	the change of the diameter of the pupil
	the reflection of the light at the cornea
	the adjustment of the crystalline lens to focus light on the retina
267.	444 040 02 02 02 Vision
	The time required for complete adaptation is
\boxtimes	for high levels of illumination 10 sec and for full dark adaptation 30 min
	for high levels of illumination 10 minutes and for low levels of illumination 30 minutes
	for day and riight: 30 min
	for night 10 sec and for day 30 min
268.	445 049 02 02 02 Vision
2	The requirement of good sunglasses is to
	absorb enough visible light to eliminate glare without decreasing visual acuity, absorb UV and IR radiation and absorb all colors equally
	fit to the pilots individual taste
	eliminate distortion in aircraft windshields
	increase the time for dark adaptation

269.	446 040 02 02 02 Vision
	Why does a deficiency in vitamin A cause night-blindness?
	Vitamin A is essential to the regeneration of visual purple
	Accomodation is destroyed
	Vitamin A deficiency interrupts the oxygen supply to the photosensitive cells
	The transfer of light stimulus from the rods to a nerve impulse depends on vitamin A
270.	447 040 02 02 02 Vision
	Scanning at night should be performed by:
	slight eye movements to the side of the object
	scanning with one eye open
	concentrated fixation on an object (image must fall on the fovea centralis)
	avoiding food containing Vitamin A
271.	450 040 02 02 02 Vision
	Flickering light when reflected from spinning rctor blades
	can cause spatial disorientation and/or nausea, when looked at for a longer period of time
	can be neglected
	can be avoided when the strobe-lights are switched on
	should be avoided, because it may destroy the optical nerve
272.	457 040 02 02 02 Vision
	What impression do you have when outside references are fading away (e.g. fog, darkness, snow and vapor)?
	It is difficult to determine the size and speed of objects
	Objects seem to be closer than in reality
	Objects seem to be much bigger than in reality
	There is no difference compared with flying on a clear and sunny day
273.	\$58 040 02 02 02 Vision
	Hypoxia will effect night vision
	at 5000 FT
	less than day vision
	and causes the autokinetic phenomena
	and causes hyperventilation

274.	462 040 02 02 02 Vision
	What does not impair the function of the photosensitive cells?
	Fast speed
	Oxygen deficiency
	Acceleration
	Toxic influence (alcohol, nicotine, medication)
275.	463 040 02 02 02 Vision
	The fovea centralis is
	the area of best day vision and no night vision at all
	the area of the blind spot (optic disc)
	where the optic nerves come together with the pupil
	the area of best day vision and best night vision
276.	466 040 02 02 02 Vision
	The retina of the eye
	is the light-sensitive inner lining of the eye containing the photoreceptors essential for vision
	filters the UV-light
	is the muscle, changing the size of the crystalline lens
	only regulates the light that falls into the eye
277.	484 040 02 02 02 Vision
	Vibrations can cause blurred vision. This is due to tuned resonance oscillations of the:
\boxtimes	eyeballs
	optic nerve
	cristalline lens
	photosensitive cells
278.	\$18 040 02 02 02 Vision
210.	Vitamin A and possibly vitamins B and C are chemical factors and essential to good night
	vision:
	Vitamin deficiencies may decrease night vision performance An excess intake of vitamin A will improve night vision
	performance significantly
	3. Pilots should be carefully concerned to take a balaced diet containing sufficient vitamin A
	4. Vitamin deficiencies may decrease visual acuity in photopic
	vision but not in scotopic vision
	1 and 3 are correct, 2 and 4 are false
	1, 2, 3 and 4 are correct
	Only 4 is false
	1 and 3 are false, 2 and 4 are correct

279.	2,629 040 02 02 02 Vision
	When flying at night the first sense to be affected by a slight degree of hypoxia is the
	vision
	cochlea
	sense of balance
	proprioceptive sensitivity
280.	2,672 040 02 02 02 Vision
	The part(s) of the eye responsible for night vision
	are the rods
	are the cones
	are rods and cones
	is the cornea
281.	2,673 040 02 02 02 Vision
	The fovea
\boxtimes	is an area in which cones predominate
	is sensitive to very low intensities of light
	is an area in which rods predominate
	is the area responsible for night vision
282.	2,674 040 02 02 02 Vision
	When the optical image forms in front of the retina; we are talking about
	myopia
	hypermetropia
	presbyopia
	astigmatism
283.	6,883 049 02 02 02 Vision
2	Which of the following statement(s) is/are correct ?
	central zone
R	- 2: The retina has cones and the crystalline lens has rods- 3: The rods allow for night-vision
	- 4: The cones are located on the peripheral zone of the retina
\boxtimes	1,3
	1
	2,3
	4

284.	6,884 040 02 02 02 Vision
	In order to get colour vision, it is necessary: -1: for there to be considerable amount of light (ambient luminosity) -2: at night to look at the point to be observed at an angle of 15° -3: to allow the eye a period of time to get used to the light -4: to avoid white light
\boxtimes	1
	1,2,3
	2,4
	3
285.	6,885 040 02 02 02 Vision
	The retina allows for the acquisition of colours as a result of the:
	cones located in its central part
	rods located in its central part
	crystalline lens
	rods located in its peripheral zone
286.	6,887 040 02 02 02 Vision
	The phenomenon of accommodation, which enables a clear image to be obtained, is accomplished by which of the following?
	The crystalline lens
	The rods
	The cones
	The retina
287.	6,888 040 02 02 02 Vision
	We know that, in the mechanism of sight, the retina allows for :
\boxtimes	the acquisition of the visual signal and its coding into physiological data
	the acquisition of the visual signal and the accommodation process
	binocular vision
	the analysis of visual signals
288.	6,889 040 02 02 02 Vision
Š	We know that transverse accelerations (Gy) - 1 : are above all active in turns and pull-outs - 2 : are present during take-off and landing - 3 : are rare during routine flights - 4 : often lead to loss of consciousness
	3
	1,4
	2,3
	1,2,3

289.	6,925 040 02 02 02 Vision
	Rods (scotopic visual cells) allow for :
	good night-vision after adaptation to darkness (30 min)
	good, virtually instantaneous night-vision (scotopic vision)
	precise vision of contours and colours
	red vision, both during the day and at night
290.	6,928 040 02 02 02 Vision
	To optimise one's night-vision performance, it is necessary: - 1: to spend some time getting adapted to low levels of illumination - 2: to increase the instrument panel lighting by reducing the cockpit lighting - 3: not to focus on the point to be observed - 4: to avoid blinding
	1,3,4
	1,2,4
	2,3,4
	2
291.	6,929 040 02 02 02 Vision
	Visual perception of depth at close to medium distance is primarily due to
	binocular vision
	interactions between cones and rods
	peripheral vision
	the high sensitivity of the retina
292.	6,946 040 02 02 02 Vision
	With regard to central vision, which of the following statements are correct? -1: It is the to the functioning of rods -2: the abites details, colours and movement to be seen -1: Its very active both during the day and at night 4. It represents a zone where about 150.000 cones per mm are located to give high resolution capacity 2,4 1,2,4 1,3

293.	6,961 040 02 02 02 Vision
	The ability of the human eye to read alphanumeric information (piercing vision):
	is limited to the foveal area of the retina
	is limited to daytime using the rod cells
	is almost equally shared by the entire retina
	is governed by peripheral vision over an area of approximately 20 degrees of angle
294.	8,280 040 02 02 02 Vision
	The amount of light which strikes the retina is controlled by:
	the pupil
	the ciliary body
	the cornea
	the lens
295.	8,281 040 02 02 02 Vision
	When focussing on near objects:
	the shape of lens gets more spherical
	the shape of lens gets flatter
	the cornea gets smaller
	the pupil gets larger
296.	8,282 040 02 02 02 Vision
	The ability of the lens to change its shape is called:
	accomodation
	binocular vision
	depth perception
	adaptation
297.	8,284 049 02 02 02 Vision
2	The mechanism of accomodation is caused by:
	the functioning of the ciliary muscle aroud the lens
	the elasticity of the optic nerves
	the functioning of the muscles of the eye
	the diameter of the pupil

298.	8,292 040 02 02 02 Vision
	Presbyopia is:
\boxtimes	far sightedness linked with age
	short sightedness
	myopia
	high intraocular pressure
299.	8,296 040 02 02 02 Vision
	Glaucoma 1. can lead to total blindness 2. can lead to undetected reduction of the visual field 3. reduces visual acuity in its final stage
\boxtimes	1, 2 and 3 are correct
	1 and 3 are correct, 2 is false
	2 and 3 are correct, 1 is false
	1 is correct, 2 and 3 are false
300.	8,297 040 02 02 02 Vision
	Glaucoma is:
	8,297 040 02 02 02 Vision Glaucoma is: high intra-ocular pressure disturbed colour vision
	disturbed colour vision
	disturbed adaptation
	disturbed night vision
301.	8,298 040 02 02 02 Vision
	Glaucoma is characterised by: 1. disturbed light adaptation 2. progressive narrowing of the visual field 3. insidious onset and concealed progression 4. an increase in intra-ocular pressure
	2, 3 and 4 are correct ,1 is false
	2, 3 and 4 are correct
), 2 and 3 are correct, 4 is false
	1, 3 and 4 are correct, 2 is false
302.	8,299 040 02 02 02 Vision
	The peripheral vision is important for:
	detecting moving objects
	visual acuity
	binocular vision
	colour vision

303.	8,300 040 02 02 02 Vision
	Although we have a field of vision of more than 180° it is important during flight to use the scan ning technique, because
	only in the foveal area resolution is good enough to see an object clearly
	it is tiring to look continually in the same direction
	only in the peripheral area of the retina resolution is good enough to see an object clearly
	the reduction in the field of vision with decreasing altitude is due to a lack of vitamin A
304.	8,303 040 02 02 02 Vision
	The time an eye needs to adapt fully to the dark is about:
	25 - 30 minutes
	5 minutes
	10 minutes
	10 seconds
305.	8,305 040 02 02 02 Vision
	The photosensitive cells beeing responsible for night vision are called:
	the rods
	the fovea
	the cones
	the cones and the rods
306.	8,309 040 02 02 02 Vision
	When flying through a thunderstorm with lightning you can protect yourself from flashblindness by: a) turning up the intensity of cockpit lights b) looking inside the cockpit c) wearing sanglasses d) using face blinds or face curtains when installed
	a), b), and d) are correct
	a) b) and c) are correct, d) is false
	a) and b) are correct, c) and d) are false
(D)	c) and d) are correct, a) and b) are false
307.	8,311 040 02 02 02 Vision
	Which scanning technique should be used when flying at night?
	Look to the side (15 - 20 deg) of the object.
	Look directly at the object.
	Blink your eyes.
	Look with one eye.

308.	8,346 040 02 02 02 Vision
	Empty field myopia is caused by:
	lack of distant focal points
	atmospheric perspective
	ozone at altitude
	flying over mountainous terrain
309.	471 040 02 02 03 Hearing
	Which part of the inner ear is responsible for the perception of noise?
	The cochlea
	The semicircular canals
	The sacculus and utriculus
	The eustachian tube
310.	475 040 02 02 03 Hearing
	Which is the audible range to human hearing?
	Between 16 Hz and 20 KHz
	Between 16 MHz and 20 000MHz
	Between 16 KHz and 20 KHz
	Between 16 Hz and 20 MHz
311.	476 040 02 02 03 Hearing
	Which of the following components belong to the middle ear?
	Ossicles
	Otoliths
	Endolymph
	Semicircular canals
312.	2,636 049 02 02 03 Hearing
2	The group of tiny bones (the hammer, anvil and stirrup) are situated in
	the middle ear
	the inner ear
	the outer ear
	the maxillary sinus

313.	2,644 040 02 02 03 Hearing
	Any prolonged exposure to noise in excess of 90 db can end up in
	noise induced hearing loss
	conductive hearing loss
	presbycusis (eefects of aging)
	a ruptured ear drum
314.	2,645 040 02 02 03 Hearing
\boxtimes	All pilots are going to suffer some hearing deterioration as part of the process of growing old. The effects of aging are to cut out the high tones first
	are to cut out the low tones first
	are to cut out all tones equally
	will not affect a pilot's hearing if he is wearing ear-plugs all the time
315.	2,646 040 02 02 03 Hearing
	The human ear is capable of perceiving vibrations between the frequencies
\boxtimes	16 - 20,000 Hz
	0 - 16 Hz
	20,000 - 40,000 Hz
246	30 - 15000 dB
316.	2,647 040 02 02 03 Hearing The intensity of a sound is measured in
\boxtimes	decibels
	hertz
	cycles per second
	curies
317.	8,314 040 02 02 03 Hearing
	The Eustachian tube connects:
	the middle ear and the pharynx
	the auditory duct and the inner ear
	the semi circular canals
	the middle ear and the inner ear

318.	8,320 040 02 02 03 Hearing
	Excessive exposure to noise damages:
	the sensitive membrane in the cochlea
	the semi circular canals
	the ossicles
	the eardrum
319.	455 040 02 02 04 Equilibrium
	Tuned resonance of body parts, distressing the individual, can be caused by
	vibrations from 1 to 100 Hz
	vibrations from 16 Hz to 18 kHz
	acceleration along the longitudonal body axis
	angular velocity
320.	468 040 02 02 04 Equilibrium
	Which force(s) affect(s) the otoliths in the utriculus and sacculus?
	Gravity and linear acceleration
	Gravity alone
	Linear acceleration and angular acceleration
	Angular acceleration
321.	469 040 02 02 04 Equilibrium
	The semicircular canals of the inner ear monitor
	angular accelerations
	movements with constant speeds
	relative speed and linear accelerations
	gravity
322.	472 049 02 02 04 Equilibrium
2	Which part of the vestibular apparatus is affected by changes in gravity and linear acceleration?
	The sacculus and utriculus
	The semicircular canals
	The cochlea
	The eustachian tube
	The eustachian tube

323.	473 040 02 02 04 Equilibrium
	Which part of the vestibular apparatus is responsible for the impression of angular acceleration?
	The semicircular canals
	The cochlea
	The sacculus and utriculus
	The eustachian tube
324.	474 040 02 02 04 Equilibrium
	The vestibular organ
	reacts to linear/angular acceleration and gravity
	gives the impression of hearing
	reacts to pressure changes in the middle ear
	reacts to vibrations of the cochlea
325.	480 040 02 02 04 Equilibrium
	 Avoid turbulences. Avoid flying through rough weather. Seat passenger close to the center of gravity. Give pertinent information. 2, 3 and 4 are correct 2 and 3 are correct, 4 is false
326.	3 and 4 are correct, 1 and 2 are false Only 4 is correct 481 040 02 02 04 Equilibrium
	The probability to suffer from air-sickness is higher, when
	the passenger or student is afraid and/or demotivated to fly
	the passenger has taken anti-motion sickness remedies prior flight
	the student ist motivated and adapted to the specific stimuli of flying
	the student has good outside visual reference
327.	483 040 02 02 04 Equilibrium
~	Vibrations within the frequency band of 1/10 to 2 Hertz are a factor contributing to air-sickness, because they
	upset the vestibular apparatus
	interfere with those of the own blood thus causing circulation problems
	interfere with the frequencies of the central nervous system
	make the stomach and its contents vibrating at the same frequency

328.	485 040 02 02 04 Equilibrium
	What is understood by air-sickness?
	A sensory conflict within the vestibular system accompanied by nausea, vomiting and fear
	An illness caused by evaporation of gases in the blood
	An illness caused by reduced air pressure
	An illness caused by an infection of the middle ear
329.	486 040 02 02 04 Equilibrium
	When spinning an aircraft, the predominating type of acceleration will be
	angular acceleration
	radial acceleration
	linear acceleration
	vertical acceleration
330.	507 040 02 02 04 Equilibrium
	The cupula in the semicircular canal will be bent, when a rotation begins. This is because
	the fluid (endolymph) within the semicircular canal lags behind the accelerated canal walls
	the cupula will stay in place and give the correct impression
	the fluid (endolymph) will preceed the accelerated canal walls
	the cupula will bend on constant angular speeds
331.	508 040 02 02 04 Equilibrium
	The semicircular canals monitor
	angular accelerations
	relative speed
	horizontal and vertical accelerations
	gravity
332.	510 040 02 02 04 Equilibrium
	Changes in ambient pressure and accelerations during flight are important physiological factors limiting the pilots performance if not taken into consideration. Linear accelerations along the long axis of the body
	change blood presssure and blood volume distribution in the body
	will have an effect on blood pressure and blood flow if the accelerative force acts across the body at right angles to the body axis
	will not stimulate any of the vestibular organs
	are of no interest when performing aerobatics

333.	2,618 040 02 02 04 Equilibrium
	The semicircular canals detect
	angular accelerations
	sound waves
	linear accelerations
	changes in arterial pressure
334.	2,637 040 02 02 04 Equilibrium
	The semicircular canals form part of the
	inner ear
	middle ear
	ear drum
	external ear
335.	2,640 040 02 02 04 Equilibrium
	Angular accelerations are picked up in the inner ear by
	the semicircular canals
	the tympanum
	the saccule and the utricle
	the cochlea
336.	6,875 040 02 02 04 Equilibrium
	Which of the following systems are involved in the appearance of motion sickness?
	-1 : Hearing -2 : The vestibular system
	-3: Vision
	-3 : Vision -4 The proprieceptive senses " Seat-of-the-Pants-Sense")
\bowtie	-3 : Vision -4 The proprioceptive senses " Seat-of-the-Pants-Sense") -5 : The gas rointestinal system
\boxtimes	-3 : Vision -4 The proprieceptive senses " Seat-of-the-Pants-Sense")
	-3 : Vision -4 The proprioceptive senses " Seat-of-the-Pants-Sense") -5 : The gas rointestinal system
	-3 : Vision -4 The proprioceptive senses " Seat-of-the-Pants-Sense") -5 : The gas rointestinal system
	-3 : Vision -4 The proprioceptive senses " Seat-of-the-Pants-Sense") -5 : The gas rointestinal system
337.	-3: Vision -4 The proprioceptive senses " Seat-of-the-Pants-Sense") -5: The gastrointestinal system 2,3,4 1,2,3 2,3,4,5
337.	-3: Vision -4 The proprieceptive senses " Seat-of-the-Pants-Sense") -5: The gas trointestinal system 2,3,4 1,2,3 2,3,4,5 1,2,5 6,879 040 02 02 04 Equilibrium Perceptual conflicts between the vestibular and visual systems are:
337.	-3: Vision -4 The proprieceptive senses " Seat-of-the-Pants-Sense") -5: The gastrointestinal system 2,3,4 1,2,3 2,3,4,5 1,2,5 6,879 040 02 02 04 Equilibrium Perceptual conflicts between the vestibular and visual systems are: 1 - classic and resistant when flying in IMC
337.	-3 : Vision -4 The proprioceptive senses " Seat-of-the-Pants-Sense") -5 : The gas (rointestinal system) 2,3,4 1,2,3 2,3,4,5 1,2,5 6,879 040 02 02 04 Equilibrium Perceptual conflicts between the vestibular and visual systems are : 1 - classic and resistant when flying in IMC 2 - sensed via impressions of rotation 3 - sensed via distorted impressions of the attitude of the aircraft
337.	-3: Vision -4 The proprioceptive senses " Seat-of-the-Pants-Sense") -5: The gastrointestinal system 2,3,4 1,2,3 2,3,4,5 1,2,5 6,879 040 02 02 04 Equilibrium Perceptual conflicts between the vestibular and visual systems are: 1 - classic and resistant when flying in IMC 2 - sensed via impressions of rotation
337.	-3 : Vision -4 The proprioceptive senses " Seat-of-the-Pants-Sense") -5 : The gastrointestinal system 2,3,4 1,2,3 2,3,4,5 1,2,5 6,879 040 02 02 04 Equilibrium Perceptual conflicts between the vestibular and visual systems are : 1 - classic and resistant when flying in IMC 2 - sensed via impressions of rotation 3 - sensed via distorted impressions of the attitude of the aircraft 4 - considerable during prolonged shallow turns under IMC
337.	-3: Vision -4 The proprioceptive senses " Seat-of-the-Pants-Sense") -5: The gastrointestinal system 2,3,4 1,2,3 2,3,4,5 1,2,5 6,879 040 02 02 04 Equilibrium Perceptual conflicts between the vestibular and visual systems are: 1 - classic and resistant when flying in IMC 2 - sensed via impressions of rotation 3 - sensed via distorted impressions of the attitude of the aircraft 4 - considerable during prolonged shallow turns under IMC 1,2,3,4

338.	6,882 040 02 02 04 Equilibrium
	The vestibular system is composed of -1: two ventricles -2: a saccule -3: an utricle -4: three semicircular channels
	2,3,4
	1,4
	2,3
	1,3,4
339.	8,321 040 02 02 04 Equilibrium
	The inner ear is able to perceive: 1. angular acceleration 2. linear acceleration 3. noise
\boxtimes	1 and 2 and 3 are correct
	2 and 3 are correct, 1 is false
	1 and 2 are correct, 3 is false
	2 is correct, 1 and 3 are both false
340.	8,322 040 02 02 04 Equilibrium
	Angular accelerations are perceived by:
	the cochlea the otholits the receptors in the skin and the joints
341.	8,323 040 02 02 04 Equilibrium
041.	The otoliths in the inner ear are sensitive to:
	linear acceleration and gravity
	angular acceleration
	angular speed
	constant speed only
342.	415 040 02 02 05 Integration of sensory inputs
	The Seat-of-the-Pants Sense is including receptors in the
	muscles, tendons and joints sensitive to the position and movement of body parts
	semicircular canals
	utriculus and sacculus
	skin of the breech only

343.	419 040 02 02 05 Integration of sensory inputs
	The proprioceptive senses (seat-of-the-pants sense) are important for motor coordination. They
\boxtimes	are completely unreliable for orientation when flying in IMC
	indicate the difference between gravity and G-forces
	allow the pilot to determine the absolute vertical at flight condition
	are important senses for flight training in IMC
344.	420 040 02 02 05 Integration of sensory inputs
	The so-called " Seat-of-the-Pants" sense is
\boxtimes	not suitable for spatial orientation when outside visual references are lost
	only to be used by experienced pilots with the permission to fly in IMC
	useful for instrument and contact flight
	the only sense a pilot can rely on, when flying in IMC
345.	421 040 02 02 05 Integration of sensory inputs
	Sensory input to the " Seat-of-the-Pants" sense is given by
	subcutaneous pressure receptors and kinesthetic muscle activity sensors
	blood rushing into legs
	acceleration of the stomach (nausea)
	pressure of the heart on the diaphragm
346.	423 040 02 02 05 Integration of sensory inputs
	Orientation in flight is accomplished by 1. eyes
	2. utriculus and sacculus
	semicircular canals Seat-of-the-pants-Sense
	1, 2, 3 and 4 are correct
	only 1 and 4 are correct
	2, 3 and 4 are correct , 1 is false
	2, 3 and 4 are false, only 1 is correct
347.	427 040 02 02 05 Integration of sensory inputs
	The " Seat-of-the-Pants-Sense"
	can give false inputs to body orientation when visual reference is lost
	is a natural human instinct which will always indicate the correct body position in space
	can be used, if trained, to avoid disorientation in space
	can be used as a reference for determining attitude when operating in visual and instrument meteorological conditions

348.	432 040 02 02 05 Integration of sensory inputs
	A pilot is used to land on small and narrow runways only. Approaching a larger and wider runway can lead to :
	"an early or high " round out" "
	a steeper than normal approach dropping low
	"a flatter than normal approach with the risk of " ducking under" "
	the risk to land short of the overrun
349.	433 040 02 02 05 Integration of sensory inputs
	The impression of an apparent movement of light when stared at for a relatively long period of time in the dark is called
	" "autokinesis" "
	" "white out" "
	" "oculogyral illusion" "
	" "oculografic illusion" "
350.	435 040 02 02 05 Integration of sensory inputs
	Which problem may occur, when flying in an environment of low contrast (fog, snow, darkness, haze)? Under these conditions it is:
	difficult to estimate the correct speed and size of approaching objects
	impossible to detect objects
	no problem to estimate the correct speed and size of approaching objects
	improbable to get visual illusions
351.	436 040 02 02 05 Integration of sensory inputs
<u> </u>	A pilot approaching an upslope runway
	may feel that he is higher than actual. This illusion may cause him to land short.
	is performing a steeper than normal approach, landing long
	establishes a higher than normal approach speed
	establishes a slower than normal approach speed with the risk of stalling out
352.	2438 040 02 02 05 Integration of sensory inputs
N.	The area in front of a threshold descends towards the threshold. Possible danger is:
	approach is higher than normal and may result in a long landing
	to drop far below the glide path
	approach is lower than normal and may result in a short landing
	to misjudge the length of the runway

353.	448 040 02 02 05 Integration of sensory inputs
	Approaches at night without visual references on the ground and no landing aids (e.g. VASIS) can make the pilot believe of beeing
	"higher than actual altitude with the risk of landing short (" ducking under")"
	higher than actual altitude with the risk of overshooting
	lower than actual altitude with the risk of overshooting
	lower than actual altitude with the risk of ducking under
354.	449 040 02 02 05 Integration of sensory inputs
	A pilot is used to land on wide runways only. When approaching a smaller and/or narrower runway, the pilot may feel he is at a
	greater height than he actually is with the tendency to land short
	lower than actual height with the tendency to overshoot
	greater height and the impression of landing short
	lower height and the impression of landing slow
355.	452 040 02 02 05 Integration of sensory inputs
	A pilot approaching a runway which is narrower than normal may feel he is at a greater height than he actually is. To compensate he may fly a
	flatter than normal approach with the tendency to undershoot
	compensatory glide path and land long
	compensatory glide path and stall out
	higher than normal approach with the tendency to overshoot
356.	453 040 02 02 05 Integration of sensory inputs
	The proprioceptive senses (" Seat of-the-Pants-Sense")
\boxtimes	give wrong information, when outside visual reference is lost
	is a natural human instinct, always indicating the correct attitude
	can be used, if trained, to avoid spatial disorientation in IMC
	can neither be used for motor coordination in IMC and VMC
357.	478 040 02 02 05 Integration of sensory inputs
	The most probable reason for spatial disorientation is
	a poor instrument cross-check and permanently transitioning back and forth between instruments and visual references
	the lack of attention to the vertical speed indicator
	to rely on instruments when flying in and out of clouds
	to believe the attitude indicator

358.	482 040 02 02 05 Integration of sensory inputs
	What should a pilot do if he has no information about the dimensions of the runway and the condition of the terrain underneath the approach? He should
	make an instrument approach and be aware of the illusory effects that can be induced
	be aware that approaches over downsloping terrain will make him believe that he is higher than actual
	make a visual approach and call the tower for assistance
	be aware that approaches over water always make the pilot feel that he is lower than actual height
359.	487 040 02 02 05 Integration of sensory inputs
	Flying a coordinated level turn will
	make the body's pressure receptors feel an increased pressure along the body's vertical axis
	first give the impression of climb , then the impression of descent
	make the blood being pooled in the head
	make the seat-of-the-pants sense feel a decreased pressure along the body's vertical axis
360.	488 040 02 02 05 Integration of sensory inputs
	Being pressed into the seat can cause illusions and/or false reactions in a pilot lacking visual contact to the ground, because this sensation
	corresponds with the sensation a pilot gets when starting a climb or performing a level turn
	corresponds with the sensation a pilots gets, when flying straight and level or starting a descent
	makes the pilot to pull up the pose to compensate for level flight
	"will not stimulate the " sext-of-the-pants" sense"
361.	489 040 02 02 05 Integration of sensory inputs
	Which sensations toes a pilot get, when he is rolling out of a coordinated level turn?
	Descending and turning into the opposite direction
	Flying straight and level
	Climbing
	Turning into the original direction
362.	490 040 02 02 05 Integration of sensory inputs
	How can a pilot prevent " pilots-vertigo" ?
	Avoid steep turns and abrupt flight maneouvers and maintain an effective instrument cross check.
	Practise an extremely fast scanning technique using off-center vision.
	Use the autopilot and disregard monitoring the instruments.
	Maintain orientation on outside visual references as long as possible and rely upon the senses of balance

363.	491 040 02 02 05 Integration of sensory inputs
	How can a pilot overcome a vertigo, encountered during a real or simulated instrument
	flight? 1. Establish and maintain an effective instrument cross-check. 2. Always believe the instruments; never trust your sense of feeling. 3. Ignore arising illusions. 4. Move the head sidewards and back and forth to " shake-off" illusions.
	1, 2 and 3 are correct
	1and 2 are correct, 3 and 4 are false
	Only 4 is correct
	1, 2, 3 and 4 are correct
364.	492 040 02 02 05 Integration of sensory inputs
	Dizziness and tumbling sensations, when making head movements in a tight turn, are symptoms of
	" "Pilot`s vertigo" "
	" "Nystagmus" "
	" "Flicker-vertigo" "
	" "Oculogravic illusion" "
365.	493 040 02 02 05 Integration of sensory inputs
	"Pilot's vertigo"
	is the condition of dizziness and/or tumbling sensation caused by contradictory impulses to the central nervous system (CNS)
	is the sensation to keep a rotation after completing a turn
	is the sensation of climbing caused by a strong linear acceleration
	announces the beginning of airsickness
366.	494 040 02 02 05 Integration of sensory inputs
	What can a pilot do to avoid "Flicker vertigo" when flying in the clouds?
	Switch strobe-lights off
	Dim the cockpit lights to avoid reflections
(D)	Engage the autopilot until breaking the clouds
	Fly straight and level and avoid head movements

367.	495 040 02 02 05 Integration of sensory inputs
	What do you do, when you are affected by "pilot's vertigo"? 1. Establish and maintain an effective instrument cross-check. 2. Believe the instruments. 3. Ignore illusions. 4. Minimize head movements.
	1, 2, 3 and 4 are correct
	1, 2 and 3 are correct, 4 is false
	1 and 2 are correct, 3 and 4 are false
	Only 4 is false
368.	496 040 02 02 05 Integration of sensory inputs
	A pilot is prone to get vertigo, as visibility is impaired (dust, smoke, snow). What is the correct action to prevent vertigo?
	Depend on the instruments
	Reduce rate of breathing until all symptoms disappear, then breathe normal again
	Concentrate on the vertical speedometer
	Depend on information from the semicircular canals of the inner ear, because those are the only ones giving correct information
369.	497 040 02 02 05 Integration of sensory inputs
	The risk of getting a spatial disorie training is growing, when
	there is contradictory information between the instruments and the vestibular organs
	the pilot is buckled too tight to his seat and cannot sense the attitude changes of the aircraft by his Seat-of-the-Pants-Sense
	the pilot is performing an effective instrument cross-check and is ignoring illusions
	informations from the vestibular organ in the inner ear are ignored
370.	498 040 02 02 05 Integration of sensory inputs
	Vertigo is the result of
	" "Coriolis-effect" "
	Collogyral illusion" "
	""Autokinetic-illusion" "
12	" "Elevator illusion" "
371.	499 040 02 02 05 Integration of sensory inputs
	Which flight-maneouvre will most likely induce vertigo? Turning the head while
\boxtimes	banking
	climbing
	descending
	flying straight and level

372.	500 040 02 02 05 Integration of sensory inputs
	With " vertigo" the instrument-panel seems to tumble . This is due to
	the coriolis effect in the semicircular canals
	tuned resonance caused by vibration
	conflicting information between the semicircular canals and the tympanic membrane
	oxygen deficiency
373.	501 040 02 02 05 Integration of sensory inputs
	"Pilot's vertigo" :
	is a sensation of rotation during flight due to multiple irritation of several semicircular canals at the same time
	the impression of flying straight and level while the aircraft is spinning
	a sudden loss of visual perception during flight due to multiple irritation of the utriculus and sacculus at the same time
	the impression of climbing when banking
374.	502 040 02 02 05 Integration of sensory inputs
	What is the name for the sensation of rotation occurring during flight and which is caused by multiple irritation of several semicircular canals at the same time?
	" "Pilot's" Vertigo."
	Sudden incapacitation.
	" "Seat-of-the-Pants" illusions."
	Graveyard spin.
375.	503 040 02 02 05 Integration of sensory inputs
	Without visual reference, what illusion could the pilot get, when he is stopping the rotation to recover from a spin? He will get the illusion of
	spinning into the opposite direction
	spinning into the same direction
	straight and level flight
	climbing and turning into the original direction of the spin
376.	504 040 02 02 05 Integration of sensory inputs
4(1)	Starting a coordinated level turn can make the pilot believe to
	climb
	descent
	turn into the opposite direction
	increase the rate of turn into the same direction

377.	505 040 02 02 05 Integration of sensory inputs
	When accelerating forward the otoliths in the utriculus/sacculus will
	give the illusion of climbing (body tilting backwards, nose of the a/c going up)
	give the illusion of banking
	give the illusion of straight and level flight
	give the illusion of descending (body tilting downwards, or forwards, nose of the airplane going down)
378.	506 040 02 02 05 Integration of sensory inputs
	A pilot, accelerating or decelerating in level flight may get:
	the illusion of climbing or descending
	the feeling of rotation
	the illusion to turn
	the impression of stationary objects moving to the right or left
379.	2,628 040 02 02 05 Integration of sensory inputs
	To prevent vertigo in flight we should
	not move the head suddenly while we are turning
	look towards the sides when we make a turn
	breath deeply but control the respiratory frequency
	keep breathing normally
380.	2,641 040 02 02 05 Integration of sensory inputs
	When stopping the rotation of a spin we have the sensation
	that we are starting a spin into the opposite direction
	of turning in the same direction
	of the sharp dipping of the nose of the aircraft
	of the immediate stabilization of the aircraft
381.	2,542 040 02 02 05 Integration of sensory inputs
	When accelerating in level flight we could experience the sensation of a
	climb
	descent
	turn
	spin

382.	3,536 040 02 02 05 Integration of sensory inputs
	During flight in IMC, the most reliable sense which should be used to overcome illusions is the:
	visual sense, interpreting the attitude indicator
	" "Seat-of-the-pants-Sense" "
	vestibular sense
	visual sense by looking outside
383.	3,537 040 02 02 05 Integration of sensory inputs
	Spatial disorientation will be most likely to occur during flight:
	if the brain receives conflicting informations and the pilot does not believe the instruments
	when flying in and out of clouds and the pilot maintains good instrument cross check
	when flying in light rain below the ceiling
	when flying in bright sunlight above a cloud layer
384.	6,880 040 02 02 05 Integration of sensory inputs
	Which of the following illusions are brought about by conflicts between the visual system and the vestibular system? -1: Illusions concerning the attitude of the arroraft -2: Autokinetic illusion (fixed point viewed as moving) -3: Illusions when estimating the size and distance of objects -4: Illusions of rotation
	1,4
	2,3,4
	2
	3,4
385.	6,939 040 02 02 05 Integration of sensory inputs
	Autokinetic illusion is:
	an illusion in which a stationary point of light, if stared at for several seconds in the dark, may - without a frame of reference - appear to move
	the sensation during a radial acceleration of seeing a fixed reference point moving into the opposite direction of the acceleration
	a conflict between the visual system and bodily sensations
	poor interpretation of the surrounding world
386.	6,945 040 02 02 05 Integration of sensory inputs
	With regard to illusions due to perceptive conflicts, it may be said that they:
	are mainly due to a sensory conflict concerning perception of the vertical and the horizontal between the vestibular and the visual system
	originate from a conflict between instrument readings and external visual perceptions
	are caused by the absence of internal visual cues exclusively
	are caused by a conflictual disagreement concerning attitudinal perception between the various members of a crew

387.	8,332 040 02 02 05 Integration of sensory inputs
	Visual disturbances can be caused by: 1. hyperventilation 2. hypoxia 3. hypertension 4. fatigue
	1, 2 and 4 are correct
	1, 2, 3 and 4 are correct
	1, 2 and 3 are correct
	2, 3 and 4 are correct
388.	8,333 040 02 02 05 Integration of sensory inputs
	Desorientation is more likely to occur when the pilot is: 1. flying in IMC 2. frequently changing between inside and outside references 3. flying from IMC into VMC 4. having a cold
	1, 2 and 4 are correct
	1, 2 and 3 are correct
	2, 3 and 4 are correct
	1, 3 and 4 are correct
389.	8,336 040 02 02 05 Integration of sensory inputs
	Positive linear accelleration when flying in IMC may cause a false sensation of:
	pitching up
	pitching down
	apparent sideward movement of objects in the field of vision
	vertigo
390.	8,337 040 02 02 05 Integration of sensory inputs
	Linear accelleration when flying straight and level in IMC may give the illusion of:
	climbing
	descending
	yawing
	spinning
391.	8,343 040 02 02 05 Integration of sensory inputs
	Coriolis illusion, causing spatial disorientation is the result of:
	simultaneous head movements during aircraft manoeuvres
	undergoing positive G
	gazing in the direction of a flashing light
	normal deterioration of the semicircular canals with age

392.	8,344 040 02 02 05 Integration of sensory inputs
	When turning in IMC , head movements should be avoided as much as possible. This is a prevention against:
	coriolis illusion
	autokinesis
	oculogyral illusion
	pressure vertigo
393.	8,345 040 02 02 05 Integration of sensory inputs
	A pilot, trying to pick up a fallen object from the cockpit floor during a tight turn, experiences:
	coriolis illusion
	autokinetic illusion
	barotrauma
	pressure vertigo
394.	8,347 040 02 02 05 Integration of sensory inputs
	When a pilot is starring at an isolated stationary light for several seconds in the dark he might get the illusion that:
	the light is moving
	the size of the lightis varying
	the intensity of the light is varying
	the colour of the light is varying
395.	8,348 040 02 02 05 Integration of sensory inputs
	When you stare at a single light against the dark (f.e. an isolated star) you will find the light appears to move after some time. This phenomenon is called:
	autokinetic phenomenon
	black hole illusion
	coriolis illusion
	Seans
396.	8;349 040 02 02 05 Integration of sensory inputs
4(4)	How is haze effecting your perception?
	Objects seem to be further away than in reality.
	Objects will give better contrast.
	Haze makes the eyes to focus at infinity
	Objects seem to be closer than in reality.

397.	8,350 040 02 02 05 Integration of sensory inputs
	The 'Black hole' phenomenon occurs during approaches at night and over water, jungle or desert. When the pilot is lacking of visual cues other than those of the aerodrome there is an illusion of
	being too high and too far away, dropping low and landing short
	being too close, landing long
	climbing
	being too low, flying a steeper approach than normal
398.	8,351 040 02 02 05 Integration of sensory inputs
	You fly VFR from your home base (runway width 27 m), to an international airport (runway width 45 m). On reaching your destination there is a risk of performing a:
	high approach with overshoot
	high approach with undershoot
	low approach with overshoot
	low approach with undershoot
399.	8,352 040 02 02 05 Integration of sensory inputs
	You fly VFR from your home base (runway width 45 m) to a small airfield (runway width 27 m). On reaching your destination there is a risk of performing a:
	low approach with undershoot
	high approach with overshoot
	high approach with undershoot
	low approach with overshoot
400.	8,353 040 02 02 05 Integration of sensory inputs
	1. In case of comitating information you can always trust your Seat- of-the-Panks-Sense.
	2. In case of conflicting information between the sensory organs and the instruments you must believe the instruments.
	1 is false, 2 is correct
	1 and 2 are correct
) is correct, 2 is false
	1 and 2 are false
401.	8,355 040 02 02 05 Integration of sensory inputs
	How can spatial disorientation in IMC be avoided? By
	maintaining a good instrument cross check.
	believing your body senses only.
	moving the head into the direction of the resultant vertical.
	looking outside whenever possible ignoring the attitude indicator.

402.	8,356 040 02 02 05 Integration of sensory inputs
	Which procedure is recommended to prevent or overcome spatial disorientation?
	Rely entirely on the indications of the flight instruments.
	Tilt your head to the side to get better informations from the semicircular canals.
	Rely on the Seat-of-the-Pants-Sense.
	Get adapted to low levels of illumination before flying and use off-center vision all the time.
403.	8,357 040 02 02 05 Integration of sensory inputs
	How can a pilot prevent spatial disorientation in flight?
	Establish and maintain a good instrument cross check.
	Always try to catch outside visual cues.
	Rely on good situational awareness believing your natural senses.
	Rely on the kinaesthetic sense.
404.	8,358 040 02 02 05 Integration of sensory inputs
	If you are subjected to an illusion during night flying you should:
	continue on instruments
	dim the cockpit lighting
	scan the surroundings
	use your oxygen mask
405.	8,359 040 02 02 05 Integration of sensory inputs
	If you are disorientated during night flying you must:
	relay on instruments
	look outside
	descend
	check your rate of breathing - do not breathe too fast
406.	6,893 049 02 03 00 Health and hygiene
2	which of the following mechanisms regulate body temperature when expored to extreme high environmental temperatures?
	1 : Shivering
	-2 : Vasoconstriction of peripheral blood vessels
•	-3 : Sweating -4 : Vasodilation of peripheral blood vessels
	3,4
	1,3,4
	2,3
	1

407.	6,894 040 02 03 00 Health and hygiene
	The following can be observed when the internal body temperature falls below 35°C:
	shivering, will tend to cease, and be followed by the onset of apathy
	the appearance of intense shivering
	mental disorders, and even coma
	profuse sweating
408.	6,895 040 02 03 00 Health and hygiene
	We can observe the following in relation to a state of hypothermia :
	reasoning problems as soon as body temperature falls below 37°C
	a substantial increase in internal body temperature whereas peripheral temperature at the skin is stable
	a rapid fall in ambient temperature
	greater capacity for adaptation than in a hot atmosphere
409.	6,922 040 02 03 00 Health and hygiene
	1 Hypothermia affects physical and mental abilities. 2 Man has effective natural protection against intense cold. 3 Shivering makes it possible to combat the cold to a certain extent, but uses up a lot of energy 4 Disorders associated with hypothermia appear at a body temperature of less than 35°C
	1,3,4
	1,2,3
	2,4
	2,3,4
410.	6,982 040 02 03 00 Health and hygiene
	Our body takes its energy from: 1: minerals 2: protein 3: carbonhydrates 4: vitamines 2,3
	1,2,3,4
	1,4
	1.3

411.	6,983 040 02 03 00 Health and hygiene
	What is meant by metabolism?
	The transformation by which energy is made available for the uses of the organism
	Information exchange
	Transfer of chemical messages
	Exchange of substances between the lung and the blood
412.	6,986 040 02 03 00 Health and hygiene
	One of the waste products of the metabolic process in the cell is :
	water
	protein
	sugar
	fat
413.	6,988 040 02 03 00 Health and hygiene
	The body loses water via: 1. the skin and the lungs 2. the kidneys
	1. the skin and the lungs 2. the kidneys 1 and 2 are correct 1 is correct and 2 is not correct
	1 is correct and 2 is not correct
	1 is not correct and 2 is correct.
	both are false
414.	2,638 040 02 03 02 Common minor ailments It is inadvisable to fly when suffering from a cold. The reason for this is:
\boxtimes	pain and damage to the eardrum can result, particularly during fast descents
	gentle descents at high altitude can result in damage to the ear drum
	swollen tissue in the inner ear will prevent the air from ventilating through the tympanic membrane
	swellen tissue in the Eustachian tube will cause permanent hearing loss
415.	3,539 040 02 03 02 Common minor ailments
	It is inadvisable to fly when suffering from a cold. The reason for this is:
	the tissue around the nasal end of the Eustachian tube is likely to be swollen thus causing difficulty in equalising the pressure within the middle ear and the nasal/throat area. Pain and damage to the eardrum can result, particularly during fast descents
	although the change in air pressure during a climb at lower altitudes is very small, it increases rapidly at high altitudes. If the tissue in the Eustachian tube of the ear is swollen, gentle descents at high alltitude would result in damage to the ear drum
	swollen tissue in the inner ear will increase the rate of metabolic production resulting in hyperventilation
	because it will seriously affect peripheral vision

416.	6,892 040 02 03 02 Common minor ailments
	The following occurs in man if the internal body temperature increases to 38°C :
	impairment of physical and mental performance
	apathy
	considerable dehydration
	nothing signifiant happens at this temperature. The first clinical signs only start to appear at 39°C
417.	6,980 040 02 03 02 Common minor ailments
	Exchange of gasses between the body and the environment takes place at the:
	lungs
	heart
	muscles
	central nervous system
418.	8,365 040 02 03 02 Common minor ailments
	Having a serious cold it is better not to fly, due to the extra risk of: 1. flatulence 2. pain in the ear during descent 3. pressure vertigo 4. pain in the nasal sinuses
	2,3 and 4 are correct
	1 and 2 are correct
	1,3 and 4 are correct
	1,2 and 4 are correct
419.	8,366 040 02 03 02 Common minor ailments
	Having a serious cold, you are going to fly. What can you expect:
	pain in the sinuses
	bends
	chokes
	hypoxia
420.	85 040 02 03 03 Problem areas for pilots
	Which of the following factors may have an influence on medical disqualification?
	High and low blood pressure as well as a poor condition of the circulatory system.
	High blood pressure only.
	Blood pressure problems cannot occur in aircrew because they always can be treated by in-flight medication.
	Low blood pressure only.

421.	454 040 02 03 03 Problem areas for pilots
	When assessing an individuals risk in developing coronary artery disease, the following factors may contribute: 1.obesity 2.distress 3.smoking 4.family history
	1, 2, 3 and 4 are correct
	2 and 3 are correct, 1 and 4 are false
	Only 3 is correct, 1, 2 and 4 are false
	1, 2 and 3 are correct, 4 is false
422.	2,753 040 02 03 03 Problem areas for pilots
	Noise induced hearing loss is influenced by
	the duration and intensity of a noise
	the duration of a noise but not its intensity
	the suddenness of onset of a noise
	the intensity of the noise but not its duration,
423.	2,754 040 02 03 03 Problem areas for pilots
	To reduce the risk of coronary artery disease, exercise should be
	double the resting heart rate for at least 20 minutes, three times a week
	avoided since raising the heart rate shortens the life of the heart
	double the resting heart rate for at least an hour, five times a week
	triple the resting heart rate for 20 minutes, once a week
424.	2,755 040 02 03 03 Problem areas for pilots
	Which of the following is most true?
	Regular exercise is beneficial to general health, but the most efficient way to lose weight is by reducing caloric consumption
	Regular exercise is an impediment to losing weight since it increases the metabolic rate
	Regular exercise is beneficial to general health, and is the only effective way to lose weight
(D)	Regular exercise and reduction in caloric consumption are both essential in order to lose weight
425.	6,967 040 02 03 03 Problem areas for pilots
	Which of the following statements about hyperthermia is correct?
	Complete adaption to the heat in a hot country takes about a fortnight.
	Vasodilation is the only regulant which is capable of reducing body temperature.
	Evaporation is more effective when ambient humidity is high.
	Performance is not impaired by an increase in body temperature to 40°C or more.

426.	8,295 040 02 03 03 Problem areas for pilots
	Visual acuity during flight at high altitudes can be affected by: 1. anaemia 2. smoking in the cockpit
	3. carbon monoxide poisoning 4. hypoxia
	1, 2, 3 and 4 are correct
	1,2 and 3 are correct
	2,3 and 4 are correct
	1,3 and 4 are correct
427.	8,317 040 02 03 03 Problem areas for pilots
	Conductive hearing loss can be caused by: 1. damage to the ossicles in the middle ear caused by infection or trauma 2. a damage of the auditory nerve 3. an obstruction in the auditory duct 4. a ruptured tympanic membrane
	1,2,3 and 4 are correct
	2,3 and 4 are correct, 1 is false
	1,2 and 3 are correct, 4 is false
	1,3 and 4 are correct, 2 is false
428.	8,318 040 02 03 03 Problem areas for pilots
	Noise induced hearing loss (NIHL) is caused by:
	damage of the sensitive membrane in the cochlea due to overexposure to noise
	a blocked Eustachian tube
	pressure differences on both sides of the eardrum
	reduced mobility of the ossicles
429.	451 040 02 03 04 Intoxication
	Alcohol, even when taken in minor quantities
	can make the brain cells to be more susceptible to hypoxia
	stimulate the brain, making the pilot resistant to hypoxia
	will have no effect at all
	may improve the mental functions, so that the symptoms of hypoxia are much better to be identified
430.	456 040 02 03 04 Intoxication
	Concerning flying and blood alcohol content the following statement is correct:
	no flying under the influence of alcohol
	flying with up to 0.05 % blood alcohol
	flying with up to 0.15 % blood alcohol
	flying with up to 0.08 % blood alcohol is safe, since driving is safe up to this limit

431.	461 040 02 03 04 Intoxication
	The metabolisation of alcohol
	is a question of time
	is quicker when used to it
	can be accelerated even more by coffee
	can be influenced by easy to get medication
432.	479 040 02 03 04 Intoxication
	Concerning the effects of drugs and pilot's performance
	the primary and the side effects have to be considered
	the side effects only have to be considered
	medication has no influence on pilot's performance
	only the primary effect has to be considered; side effects are negligable
433.	515 040 02 03 04 Intoxication
	When drugs against sleep disorders and/or nervosity have been taken and the pilot intends to fly, attention has to be payed to
	the effect they have on reaction time and perceptional awareness
	the effect they have on hearing
	the fact that there is no difference in the quality of sleep produced under the influence of those drugs compared to normal drug-free sleep
	schedule only those pilots, who show no reactions to these medications
434.	516 040 02 03 04 Intoxication
	Drugs against allergies (antihistamines), when taken by an aviator can cause the following undesirable effects: 1. Drowsiness, deziness 2. Dry mouth 3. Headaches 4. Impaired depth perception 5. Nausea
	1, 2, 3, 4 and 5 are correct
	only 3, 4 and 5 are correct
(D)	2, 3 and 4 are correct
	only 1 is correct

435.	517 040 02 03 04 Intoxication
	The consumption of medicines or other substances may have consequences on qualification to fly for the following reasons: 1. The desease requiring a treatment may be cause for disqualification.
	2. Flight conditions may modify the reactions of the body to a
	treatment. 3. Drugs may cause adverse side effects impairing flight safety. 4. The effects of medicine do not necessarily immediately disappear when the treatment is stopped.
	1, 2, 3 and 4 are correct
	1, 2 and 3 are correct, 4 is false
	3 and 4 are false, 1 and 2 are correct.
	Only 2 is false.
436.	519 040 02 03 04 Intoxication
	Cigarette smoking has particular significance to the flyer, because there are long-term and short-term harmful effects. From cigarette smoking the pilot can get:
	a mild carbon monoxide poisoning decreasing the pilot's tolerance to hypoxia
	a mild carbon dioxide poisoning increasing the pilot's tolerance to hypoxia
	a mild carbon monoxide poisoning increasing the pilot's tolerance to hypoxia
	a suppressed desire to eat and drink
437.	520 040 02 03 04 Intoxication
	A pilot who smokes will loose some of his capacity to transport oxygen combined with hemoglobin.
	Which percentage of his total oxygen transportation capacity would he give away when he smokes one pack of cigarettes a day?
	5 - 8%
	0.5 - 2%
	12 - 18%
	20 - 25%
438.	521 040 02 03 04 Intoxication
	ying at pressure altitude of 10 000 ft, a pilot, being a moderate to heavy smoker, has an oxygen content in the blood equal to an altitude
	above 10 000 FT
	of 10 000 FT
	lower than 10 000 FT
	of 15000 FT when breathing 100% oxygen

439.	522 040 02 03 04 Intoxication
	Which of the following applies when alcohol has been consumed?
	Even after the consumption of small amounts of alcohol, normal cautionary attitudes may be lost
	Drinking coffee at the same time will increase the elimination rate of alcohol
	Small amounts of alcohol increase visual performance
	Acute effects of alcohol cease immediately when 100% oxygen is taken
440.	523 040 02 03 04 Intoxication
	Alcohol, when taken simultaneously with drugs, may
	intensify the effects of the drugs
	compensate for side effects of drugs
	show undesired effects only during night flights
	increase the rate of alcohol elimination from the blood
441.	524 040 02 03 04 Intoxication
	Alcohol metabolism (elimination rate)
\boxtimes	is approx. 0.015% per hour and cannot be expedited
	is approx. 0.3% per hour
	depends on wether you get some sleep in between drinks
	definitely depends on the amount and composition of food which has been eaten
442.	2,612 040 02 03 04 Intoxication
	Carbon monoxide, a product of incomplete combustion, is toxic because
	it competes with oxygen in its union with haemoglobin
	it prevents the absorption of food from the digestive tract
	it prevents the excretion of catabolites in the kidneys
	it disturbs gaseous diffusion at the alveoli capillary membrane
443.	2,631 049 02 03 04 Intoxication
2	The rate of absorption of alcohol depends on many factors. However, the rate of
	metabolism or digestion of alcohol in the body is relatively constant. It is about 0,01 - 0,015 mg % per hour
	0,02 - 0,05 mg % per hour
	0,2 - 0,25 mg % per hour
	0,3 - 0,35 mg % per hour

444.	2,632 040 02 03 04 Intoxication
	A slight lack of coordination which can make it difficult to carry out delicate and precise movements occurs when the level of alcohol in the blood is exceeding
	0.05 % blood alcohol
	0.1 % blood alcohol
	0.15 % blood alcohol
	0.2 % blood alcohol
445.	2,634 040 02 03 04 Intoxication
	The carcinogen (a substance with the ability to produce modifications in cells which develop a cancer) in the bronchi of the lungs is
	tar
	nicotine
	carbon monoxide
	lead
446.	2,635 040 02 03 04 Intoxication
	One of the substances present in the smoke of cigarettes can make it significantly more difficult for the red blood cells to transport oxygen and as a consequence contributes to hypoxia. Which substance are we referring to?
	Carbon monoxide
	Carbonic anhydride
	Tar
	Carbon dioxide
447.	2,639 040 02 03 04 Intoxication
	The so-called Coriolis effect (a conflict in information processing in the brain) in spatial disorientation occurs:
	on stimulating several semicircular canals simultaneously
	on stimulating the saccule and the utricle of the inner ear
	on stimulating the cochlea intensely
	when no semicircular canal is stimulated
448.	3,538 040 02 03 04 Intoxication
	The chemical substance responsible for addiction to tobacco is
	nicotine
	carbon monoxide
	tar
	the combination of nicotine, tar and carbon monoxide

449.	3,540 040 02 03 04 Intoxication
	A large number of medical preparations can be bought without a doctor's prescription. In relation to using these preparations, which of the following is correct:
	A pilot using any of these preparations should get professional advice from a flight surgeon if he intends to fly and self-medicate at the same time
	They have no side effects which would give problems to a pilot during flight
	The side effects of these types of preparations are sufficiently negligible as to be ignored by pilots
	They will cause a condition of over-arousal
450.	3,556 040 02 03 04 Intoxication
	Carbon monoxide is always present in the exhaust gases of engines. If a pilot is exposed to carbon monoxide, which of the following responses is correct?
	A short exposure to relatively high concentrations of carbon monoxide can seriously affect a pilot's ability to operate an aircraft.
	Carbon monoxide is easily recognised by odour and taste.
	Carbon monoxide can only affect pilots if they are exposed to them for a long period of time.
	When exposed to carbon monoxide for a long period of time, the body will adapt to it and no adverse physical effects are experienced
451.	8,403 040 02 03 04 Intoxication
	Which statement is correct regarding alcohol in the human body?
	Judgement and decision making can be affected even by a small amount of alcohol.
	A small amount of alcohol increases visual acuity.
	An increase of altitude decreases the adverse effect of alcohol.
	When drinking coffee, the human body metabolizes alcohol at a faster rate than normal.
452.	8,404 040 02 03 04 Intexication
	Which statement is correct? 1. Smokers have a greater chance of suffering from coronary heart disease 2. Smoking tobacco will raise the individuals pysiological altitude during flight
	3. Smokers have a greater chance of decreasing ung cancer
$\boxtimes_{\underline{S}}$	1,2 and 3 are correct
	1 and 2 are correct, 3 is false
	1 and 3 are correct, 2 is false
	2 and 3 are correct, 1 is false
453.	8,405 040 02 03 04 Intoxication
	Smoking cigarettes reduces the capability of the blood to carry oxygen. This is because:
	hemoglobin has a greater affinity for carbon monoxide than it has for oxygen
	carbon monoxide in the smoke of cigarettes assists diffusion of oxygen in the alveoli
	carbon monoxide increases the partial pressure of oxygen in the alveoli
	the smoke of one cigarette can cause an obstruction in the respiratory tract

454.	8,406 040 02 03 04 Intoxication
	CO (carbon monoxide) present in the smoke of cigarettes can lead to: 1. reduction of time of usefull consciousness 2. hypoxia at a much lower altitude than normal
	1 and 2 are both correct
	1 is correct, 2 is false
	1 is false, 2 is correct
	1 and 2 are both false
455.	8,409 040 02 03 04 Intoxication
	Carbon monoxide in the human body can lead to: 1. loss of muscular power 2. headache 3. impaired judgement 4. pain in the joints 5. loss of consciousness
	1, 2, 3 and 5 are correct
	1, 2 and 4 are correct
	2 and 3 are correct, 1 is false
	1, 2, 3, 4 are correct
456.	8,410 040 02 03 04 Intoxication Adverse effects of carbon monoxide increase as:
\boxtimes	altitude increases
	altitude decreases
	air pressure increases
	relative humidity decreases
457.	4,139 040 02 03 04 Intoxication
	Incapacitation is most dangerous when it is :
	insinuating
	obvious sudden
	intense
458.	2,699 040 03 01 00 Human information processing
	The human information processing system is highly efficient compared to computers because of its
	flexibility
	speed
	speed working memory capacity

459.	8,444 040 03 01 00 Human information processing
	In an abnormal situation the pilot has an apparently correct explanation for the problem. The chance that he/she now ignores or devalues other relevant information, not fitting into his/her mental picture is:
	increasing
	the same, no matter if he/she has already made up his/her mind
	not applicable with old and experienced pilots
	decreasing
460.	8,447 040 03 01 00 Human information processing
	Many pilots think up systems to deal with affairs so they don't have to think up every time what they have to do.
	this has to be posetively appreciated for it increases consistency in action
	this is dangerous for every situation is different
	this has to be rejected for the company draws the rules and the procedures they have to comply with
	this has to be advised against for it reduces flexibility at a moment a problem has to be solved by improvisation.
461.	2,627 040 03 01 01 Attention and vigilance
	The ability of detecting relevant information which is not presented in an actively monitored input channel is known as
	attention
	perception
	sensation
	appreciation
462.	2,706 040 03 01 01 Attention and vigilance
	The 'cocktail party effect' is
	the ability to pick up relevant information unintentionally
	the ability to drink too much at social gathering
	the tendency to believe information that reinforces our mental model of the world
	the tendency not to perceive relevant information
463.	2,710 040 03 01 01 Attention and vigilance
Ť	Which of the following tasks are possible to do simultaneously without mutual interference?
	Maintain manual straight and level flight and solve a problem.
	Listen attentively and solve a problem.
	Talk and rehearse a frequency in working memory.
	Read and listen attentively.

464.	2,758 040 03 01 01 Attention and vigilance
	A selective attentional mechanism is required
	because of the limited capacity of the central decision maker and working memory
	because the capacity of the long term memory is limited
	because of the limitations of the sense organs
	because of limitations in our store of motor programmes
465.	3,405 040 03 01 01 Attention and vigilance
	Concentration is essential for pilots.
	However, capacity of concentration is limited
	It only takes a little willpower to increase one's capacity of concentration without limits
	Vigilance is all that is required to be attentive
	All intellectual processes, including very routined ones, make demands on resources and therefore on one's concentration
466.	3,478 040 03 01 01 Attention and vigilance
	According to Wicken's theory, the human brain has:
	different reservoirs of resources depending on whether one is in the information-gathering, information-processing or action phase
	unlimited information-processing resources
	cognitive resources which are centered on action
	processing capabilities which function at peak level when different tasks call for the same resources
467.	3,479 040 03 01 01 Attention and vigilance
	The available cognitive resources of the human brain:
	are limited and make it impossible to perform two attentional tasks at the same time
	are limited but make it possible to easily perform several tasks at the same time
	are virtually inlimited
	allow for twin-tasks operation without any loss of effectiveness
468.	3.481 040 03 01 01 Attention and vigilance
60/	Mental schemes correspond to:
	memorised representations of the various procedures and situations which can be reactivated by the pilot at will
	the memorisation of regulatory procedures associated with a particular situation
	memorised procedures which develop and change rapidly during change-over to a new machine
	daily planning of probable dangerous situations

469.	3,485 040 03 01 01 Attention and vigilance
	The acquisition of expertise comprises three stages (Anderson model):
	cognitive, associative and autonomous
	cognitive, associative and knowledge
	associative, autonomous and expert
	automatic, cognitive and knowledge
470.	3,486 040 03 01 01 Attention and vigilance
	A pilot can be described as being proficient, when he/she:
	has automated a large part of the necessary flight deck routine operations in order to free his/her cognitive resources
	is able to reduce his/her arousal to a low level during the entire flight
	knows how to invest the maximum resources in the automation of tasks in real time
	is capable of maintaining a high level of arousal during a great bulk of the flight
471.	5,634 040 03 01 01 Attention and vigilance
	low vigilance (hypovigilance)? 1. Healthy living 2. Use of amphetamines 3. Reducing the intensity of the light 4. Organising periods of rest during the flight
	1,4
	1,2
	1,3
	3,4
472.	5,635 040 03 01 01 Attention and vigilance
	What are main signs indicating the loss of vigilance? 1. Decrease in sensory perception 2. Increase in selective attention 3. Sensation of muscular heaviness 4. Decrease in complacency
	1,4
	2,3
	2,4

473.	5,636 040 03 01 01 Attention and vigilance
	What is " divided attention" ?
	Alternative management of several matters of interest
	Ease of concentrating on a particular objective
	Difficulty of concentrating on a particular objective
	The adverse effect of motivation which leads to one's attention being dispersed
474.	5,637 040 03 01 01 Attention and vigilance
	Which of the following statements concerning hypovigilance is correct? Hypovigilance:
	may occur at any moment of the flight
	essentially occurs several minutes after the intense take-off phase
	tends to occur at the end of the mission as a result of a relaxation in the operators' attention
	only affects certain personality types
475.	5,638 040 03 01 01 Attention and vigilance
	What are the main factors which bring about reduced or low vigilance (hypovigilance)? 1. The monotony of the task 2. Tiredness,the need for sleep 3. A lack of stimulation 4. Excessive stress
	1,2,3
	2,4
	1,3
	3,4
476.	5,647 040 03 01 01 Attention and vigilance
	With regard to the level of automation of behaviours in the attention mechanism, we know that:
	the more behaviour is automated, the less it requires conscious attention and thus the more it frees mental resources
	the more behaviour is automated, the more it requires attention and the more it frees resources
	the more behaviour is automated, the more it requires attention and the less it frees resources
	the less behaviour is automated, the less it requires attention and the more it frees resources

477.	5,648 040 03 01 01 Attention and vigilance
	What are the various factors which guide attention? 1. The level of automation of behaviour 2. Response time 3. The salience of the information 4. Expectations
	1,3,4
	1,4
	1,2
	2,3,4
478.	6,854 040 03 01 01 Attention and vigilance
	If a pilot has to perform two tasks requiring the allocation of cognitive resources :
	the sharing of resources causes performance on each task to be reduced
	a person reaches his limits as from simultaneous tasks, and performance will then tail off
	the only way of not seeing performance tail off is to switch to knowledge-based mode for the two tasks
	the only way of not seeing performance tail off is to switch to rules-based mode for the two tasks
479.	8,443 040 03 01 01 Attention and vigilance
	Check the following statements: 1. The first information received determines how subsequent information will be evaluated. 2. If one has made up one's mind, contradictory information may not get the attention it really needs. 3. With increasing stress, channelizing attention is limiting the flow of information to the central decision maker (CNS).
	1, 2 and 3 are correct
	1and 3 are correct
	1 and 2 are correct
	2 and 3 are correct
480.	2 619 040 03 01 02 Perception
2	The first stage in the information process is
	sensory stimulation
	perception
	selective attention
	the recognition of information

481.	2,709 040 03 01 02 Perception
	Our mental model of the world is based
	on both our past experiences and the sensory information we receive
	entirely on the sensory information we receive
	entirely on past experiences
	on both our past experiences and our motor programmes
482.	3,545 040 03 01 02 Perception
	Conscious perception
	is a mental process involving experience and expectations
	relies upon the development of intuition
	involves the transfer of information from the receptor to the brain only
	relates to the correct recognition of colours
483.	4,151 040 03 01 02 Perception
	Which of the following provides the basis of all perceptions?
	The intensity of the stimuli.
	The aural or visual significance attributed in short term memory.
	The aural or visual significance attributed in long term memory.
	The seperation of figure and background.
484.	4,152 040 03 01 02 Perception
	The " gestalt laws " formulates :
	basic principles governing now objects are mentally organized and perceived
	basic principles governing the relationship between stress and performance
	basic principles governing the effects of habit and experience
	basic principles regarding to the relationship between motivation and performance
485.	5,645 049 03 01 02 Perception
2	What is the main adverse effect of expectations in the perception mechanism?
	Expectations often guide the focus of attention towards a particular aspect, while possible alternates are neglected
	They always lead to routine errors
	The unconscious mechanism of attention leads to focus on all relevant information
	The attention area is enlarged, thus it will lead to an uncertainty in regard to necessary decisions

486.	6,877 040 03 01 02 Perception
	In the absence of external reference points, the sensation that the vehicle in which you sitting is moving when it is in fact the vehicle directly alongside which is moving is called :
	illusion of relative movement
	autokinetic illusion
	cognitive illusion
	somato-gravic illusion
487.	6,940 040 03 01 02 Perception
	Illusions of interpretation (cognitive illusions) are :
	associated with the task of mental construction of the environment
	due mainly to a conflict between the various sensory systems
	due mainly to a poor interpretation of instrumental data
	solely induced in the absence of external reference points
488.	418 040 03 01 03 Memory
	The maximum number of unrelated items that can be stored in working memory is:
	about 7 items
	very limited - only 3 items
	about 30 items
	unlimited
489.	2,620 040 03 01 03 Memory
	The capacity of the short-term memory is
	about 7 items
	very limited only one item
	about 30 items
	unlimited
490.	2,621 040 03 01 03 Memory
	information stays in the short-term memory
	about 20 seconds
	less than 1 second
	from 5 to 10 minutes
	around 24 hours

491.	2,701 040 03 01 03 Memory
	Motor programmes are:
	stored routines that enable patterns of behaviour to be executed without continuous conscious control
	rules that enable us to deal with novel situations
	rules that enable us to deal with preconceived situations
	stored routines that enable patterns of behaviour to be executed only under continuous conscious control
492.	2,702 040 03 01 03 Memory
	Working memory enables us, for example,
	to remember a clearance long enough to write it down
	to store a large amount of visual information for about 0.5 seconds
	to ignore messages for other aircraft
	to remember our own name
493.	2,705 040 03 01 03 Memory
	In the short-term-memory, information is stored for approximately
	20 seconds
	5 minutes
	1 hour
	a couple of days
494.	3,401 040 03 01 03 Memory
	Working memory :
	is sensitive to interruptions which may erase all or some of its content
	is unlimited in size
	is unlimited in duration
	varies considerably in size between an expert pilot and a novice pilot
495.	3,408 040 03 01 03 Memory
	Cong-term memory is an essential component of the pilot's knowledge and expertise.
	It is desirable to pre-activate knowledge stored in long-term memory to have it available when required
	The capacity of long-term memory is limited
	Long-term memory stores knowledge on a temporary basis
	The recovery of information from long-term memory is immediate and easy

496.	6,847 040 03 01 03 Memory
	The main limit(s) of long-term memory is (are):
	Data retrieval as a result from a loss of access to the stored information
	the quantity of data which may be stored
	the instantaneous inputting in memory of all information collected during the day, which comes to saturate it
	the data storage time
497.	6,849 040 03 01 03 Memory
	What are the main limits of short-term memory ?
	It is: -1: very sensitive to interruptions and interference -2: difficult to access -3: limited in size -4: subject to a biochemical burn-in of information
	1,3 ,4
	1,2 ,3
	2,3
	2,4
498.	6,934 040 03 01 03 Memory
	Which of the following characteristics apply to short-term memory? - 1: It is limited in time and size - 2: It is unlimited in time and limited in size - 3: It is stable and insensitive to disturbances - 4: It is limited in time and unlimited in size
\boxtimes	
	1,3
	3,4
	2,3
499.	6,935 040 03 01 03 Memory
	With regard to short-term memory, we can say that :
	It is made up of everyday information for immediate use, and is limited in its capacity for storing and retaining data
	it is made up of everyday information for immediate use, and is limited in terms of the time for which it retains data but not in its storage capacity
	it is a stable form of working memory, and thus not very sensitive to any disturbance
	it mainly contains procedural knowledge

500.	6,956 040 03 01 03 Memory
	To facilitate and reduce the time taken to access information in long-term memory, it is helpful to:
	mentally rehearse information before it is needed
	learn and store data in a logical and structured way
	structure irrelevant information as much as possible before committing it to memory
	avoid to rehearse information which we know we will need soon
501.	6,957 040 03 01 03 Memory
	Concerning the capacity of the human long-term memory
	its storage capacity is unlimited
	it is structurally limited in terms of storage capacity, but unlimted in terms of storage time
	it is structurally limited in terms of storage time but not in terms of capacity
	its mode of storing information is passive, making memory searches effective
502.	6,959 040 03 01 03 Memory
	Which of the following statements about long term memory are correct? -1: Information is stored there in the form of descriptive, rule-based and schematic knowledge. -2: The period of time for which information is retained is limited by the frequency with which this same information is used. -3: It processes information quickly and has an effective mode of access in real time. -4: Pre-activation of necessary knowledge will allow for a reduction in access time.
	1 and 4 are correct
	1 and 2 are correct
	2, 3 and 4 are correct
	2 and 4 are correct
503.	2,715 040 03 01 04 Response selection
	Mental training, mental rehearsal of cognitive pretraining is called the inner, ideomotor simulation of actions.
	to s most important for the acquisition of complex perceptual motor skills
	It is most important for selfcontrol
	It is most effective, if it is practiced on an abstract level if imagination
	It is more effective than training by doing

504.	2,717 040 03 01 04 Response selection
	How can the process of learning be facilitated?
	By reinforcing successful trials
	By increasing the psychological pressure on the student
	By punishing the learner for unsuccessful trials
	By reinforcing errors
505.	2,718 040 03 01 04 Response selection
	Learning is called each lasting change of behaviour due to
	practice and experience
	innate mechanisms
	maturation
	drug influence
506.	2,719 040 03 01 04 Response selection
	Mental training is helpful to improve flying skills
	at all levels of flying proficiency
	only for student pilots
	only for instructor pilots
	only at a certain level of flying experience
507.	3,402 040 03 01 04 Response selection
	Motivation is a quality wich is often considered vital in the pilot's work to maintain safety.
	However, excessive motivation leads to stress wich adversly affects performance
	Motivation reduces the intensity of sensory illusions
	A high degree of motivation makes it possible to make up for insufficient knowledge in complete safety
	A high degree of motivation lowers the level of vigilance
508.	3,406 040 03 01 04 Response selection
	The quality of learning :
	s promoted by feedback on the value of one's own performance
	depends on long-term memory capacity
	is independent of the level of motivation
	is independent of age

509.	3,410 040 03 01 04 Response selection
	Young pilots or pilots with little experience of airplanes differ from experienced pilots in the following way :
	unexperienced pilots refer to information more than experts when carrying out the same task
	experienced pilots are less routine-minded than young pilots because they know that routine causes mistakes
	task for task, an expert's workload is greater than a novice's one
	flight planning performance decreases with age, and experience is unable to mask this deficiency
510.	3,468 040 03 01 04 Response selection
	In order to provide optimum human performance it is advisable to
	establish strategies for planning, automating and managing resources (in real time)
	plan a maximum of objectives and non-automated actions
	avoid powerful behaviour expedient of automating tasks
	plan future actions and decisions at least a couple of days in advance
511.	3,470 040 03 01 04 Response selection
	The planning and anticipation of future actions and situations makes it possible to: -1: create a precise reference framework: -2: avoid saturation of the cognitive system3: automate planned actions4: activate knowledge which is considered necessary for the period to come. The correct statement(s) is (are): 1, 2 and 4 are correct 2 and 4 are correct 3 and 4 are correct
512.	3,472 040 03 01 04 Response selection
	Pre-thought action plans may be said to: 1: ease access to information which may be necessary. 2: sensitize and prepare for a possible situation to come. 3: be readily interchangeable and can therefore be reformulated at any time during the flight. 4: define a framework and a probable strategy for the encountered situation.
	The combination of correct statements is:
	1, 2 and 4 are correct
	1, 2 and 3 are correct
	2 and 4 are correct
	2, 3 and 4 are correct

513.	3,474 040 03 01 04 Response selection
	The workload may be said to: -1 : be acceptable if it requires more than 90 % of the crew resources.
	-2 : be acceptable if it requires about 60 % of the crew resources3 : depend on the pilot's expertise4 : correspond to the amount of resources available
	The combination of correct statements is:
	2, 3 and 4 are correct
	1, 3 and 4 are correct
	1 and 3 are correct
	2 and 4 are correct
514.	4,153 040 03 01 04 Response selection
	The effect of experience and habit on performance
	can both be beneficial and negative
	is always negative
	is never negative
	is always beneficial
515.	4,157 040 03 01 04 Response selection
	Murphy's law states :
	If equipment is designed in such a way that it can be operated wrongly, then sooner or later, it will be
	Response to a particular stressful influence varies from one person to another
	Expectation has an influence on perception
	Performance is dependent on motivation
516.	5,640 040 03 01 04 Response selection
	Which of the following are primary sources of motivation in day-to-day professional life? 1. Beeing in control of one's own situation 2. Fear of punishment 3. Success (achievement of goals) 4. Social promotion, money
	1,2,3,4
	1,2,3
	3,4
	2,4

517.	5,641 040 03 01 04 Response selection
	Which of the following statements summarises the impact that motivation may have on attention ?
	It increases the mobilisation of energy and thus facilitates the quality of alertness and attention
	It only facilitates attention in extreme cases (risk of death)
	Motivation has only a small effect on attention, but it facilitates alertness
	It stimulates attention but may lead to phases of low arousal
518.	5,682 040 03 01 04 Response selection
	The needs of an individual lead to :
	a change in the individuals motivation and consequently to an adaptation of the behaviour
	preservation from dangers only if social needs are beeing satisfied
	no change in his motivation and conrequently to the persistence of the individuals behaviour in regard to the desired outcome
	prolonged suppression of all basic needs in favour of high self-actualization
519.	8,437 040 03 01 04 Response selection
	Whilst flying a coordinated turn, most of your activity is
	skill based behaviour
	coping behaviour
	knowledge based behaviour
	rule based behaviour
520.	8,439 040 03 01 04 Response selection
	If you approach an airfield VFR at a prescribed altitude, exactly following the approach procedure, and you counter no inexpected or new problems you show:
	skill based behaviour
	knowledge based behaviour
	rule based behaviour
	rule and skill based behaviour
521.	8,440 040 03 01 04 Response selection
	The choice of the moment you select flaps depending on situation and conditions of the landing is:
	skill based behaviour
	knowledge based behaviour
	pressure based behaviour
	rule based behaviour

522.	8,442 040 03 01 04 Response selection
	The readiness for tracing information which could indicate the development of a critical situation
	is necessary to maintain good situational awareness
	is dangerous, because it distracts attention from flying the aircraft
	makes no sense because the human information processing system is limited anyway
	"is responsible for the development of inadequate mental models of the real world"
523.	8,446 040 03 01 04 Response selection
	 Lively information is easier to take into consideration for creating a mental picture than boring information. The sequence in which information is offered is also important for the use the pilot makes of it.
	1 and 2 are both correct
	1 is correct, 2 is not correct
	1 is not correct, 2 is correct
	1 and 2 are both not correct
524.	8,448 040 03 01 04 Response selection
	The development of procedures makes pilots more effective and more reliable in their actions. This is called:
	procedural consistency
	mental model knowledge-based behaviour
	procedural confusion
525.	2,721 040 03 02 00 Fluman error and reliability
	What is meant by the term 'complacency'?
	Careless negligence or unjustified self-confidence
	To question possible solutions
	An agreement between captain and co-pilot due to Crew Resources Management
	hysiological consequences on pilots because of fear of flying
526.	2,725 040 03 02 00 Human error and reliability
	It is desirable to standardize as many patterns of behaviour (operating procedures) as possible in commercial aviation mainly because
	such behaviour reduces errors even under adverse circumstances
	this lowers the ability requirement in pilot selection
	this reduces the amount of training required
	it makes the flight deck easier to design

527.	3,404 040 03 02 00 Human error and reliability
	Human errors are frequent and may take several forms :
	an error can be described as the mismatch between the pilots intention and the result of his/her actions
	an error of intention is an error of routine
	an violation is an error which is always involuntary
	representational errors in which the pilot has properly identified the situation and is familiar with the procedure
528.	3,511 040 03 02 00 Human error and reliability
	What means can be used to combat human error? -1: Reducing error-prone mechanisms2: Improving the way in which error is taken into account in training3: Sanctions against the initiators of error4: Improving recovery from errors and its consequences.
	The combination of correct statements is:
	1, 2 and 4
	3 and 4
	1 and 2
	2, 3 and 4
529.	5,723 040 03 02 00 Human error and reliability
	What would be the priority aim in the design of man-machine interfaces and in the creation of their application procedures for combatting problems associated with human error?
	To reduce the risks of the appearance or non-detection of errors entailing serious consequences
	To eliminate the risk of latent errors occuring
	To cater systematically for the consequences of errors in order to analyse their nature and modify ergonomic parameters
	To put in place redundant alarm systems
530.	2,71 040 03 02 01 Reliability of human behaviour
	An excessive need for safety
	hampers severly the way of pilot decision making
	is absolute necessary for a safe flight operation
	is the most important attribute of a line pilot
	guarantees the right decision making in critical situations

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531. 3,507 040 03 02 01 Reliability of human behaviour

Why must flight safety considerations consider the human error mechanism?

- -1: It is analysis of an incident or accident which will make it possible to identify what error has been committed and by whom. It is the process whereby the perpetrator is made responsible which may lead to elimination of the error.
- -2: If we have a better understanding of the cognitive error mechanism, it will be possible to adapt procedures, aircraft interfaces, etc.
- -3: It is error management procedure which enables us to continuously adjust our actions. The better we understand the underlying mechanism of an error, the better will be our means for detecting and adapting future errors.
- -4 : Since error is essentially human, once it has been identified by the use of procedures, a person will be able to anticipate and deal with it automatically in the future.

	The correct statement(s) is (are):
	2 and 3
	3 and 4
	2 and 4
	1 and 4
532.	3,508 040 03 02 01 Reliability of human behaviour
	Improvement of human reliability should entail:
	an effort to understand the causes and find means of recovery for errors committed
	in aviation, the elimination of errors on the part of front-line operators
	the elimination of latent errors before they can effect performance
	the analysis of modes of human failures
533.	3,509 040 03 02 01 Reliability of human behaviour
	How can man cope with low error tolerant situations?
\boxtimes	By constantly complying with cross-over verification procedures (cross monitoring)
	By increasing error detection in all circumstances
	By randomly applying a combination of optimum detection, warning and monitoring systems
	By generally avoiding situations in which tolerance to error is low

534.	3,510 040 03 02 01 Reliability of human behaviour
	What are the various means which allow for better error detection? -1: Improvement of the man-machine interface2: Development of systems for checking the consistency of situations3: Compliance with cross-over redundant procedures by the crew4: Adaptation of visual alarms to all systems.
	The correct statement(s) is (are):
	1, 2 and 3
	1and 3
	2, 3 and 4
	3 and 4
535.	4,142 040 03 02 01 Reliability of human behaviour
	Studies of human error rates during the performance of simple repetitive task have shown, that errors can normally be expected to occur about
	1 in 10 times
	1 in 50 times
	1 in 100 times
	1 in 250 times
536.	4,143 040 03 02 01 Reliability of human behaviour
	Which of the following human error rates can be described as both realistic and pretty good, after methodical training
	1 in 100 times
	1 in 1000 times
	1 in 10000 times
	1 in 100000 times
537.	4,154 040 03 02 01 Reliability of human behaviour
	Situations particularly vulnerable to " reversion to an earlier behaviour pattern" are : 1 when concentration on a particular task is relaxed 2 when situations are characterised by medium workload 3 when situations are characterised by stress
	1. and 3.
	1. and 2.
	3.
	2. and 3.

538.	4,155 040 03 02 02 Hypotheses on reality
	The most dangerous characteristic of the false mental model is, that it
	is frequently extremely resistant to correction
	will mainly occur under conditions of relaxation
	will only occur under conditions of stress
	can easily be changed
539.	3,466 040 03 02 03 Theory and model of human error
	According to Rasmussen's model, errors in rule-based control mode are of the following type(s):
	errors of technical knowledge
	routine errors
	handling errors
	creative errors
540.	3,467 040 03 02 03 Theory and model of human error
	According to Rasmussen's model, errors are of the following type(s) in skill-based control mode:
	routine errors
	knowledge errors
	handling errors
	creative errors
541.	3,494 040 03 02 03 Theory and model of human error
	Which of the following statements best fits the definition of an active error? Active error is:
	produced by the operator and can be rapidly detected via the effects and consequences which it induces on the overall action
	produced either by a front-line operator or by a remote operator and results in a hidden or latent consequence at a specific moment of the action
	essentially results from the application of a bad rule or the poor application of a good rule by airplane designers
	rare in front-line actions and difficult to detect owing to the fact that it usually occurs in a complex system of uncontrolled and involuntary deviations

542.	3,495 040 03 02 03 Theory and model of human error
	What are the main consequences of latent errors? They: -1: remain undetected in the system for a certain lenght of time2: may only manifest themselves under certainl conditions3: are quickly detectable by the front-line operator whose mental schemas on the instantaneous situation filter out formal errors4: lull the pilots into security.
	The correct statement(s) is (are):
	1,2 and 4
	1 and 2
	1 and 3
	2, 3 and 4
543.	3,496 040 03 02 03 Theory and model of human error
	Which of the following statements fits best the concept of latent error? Latent errors:
	have been present in the system for a certain lenght of time and are difficult to understand as a result of the time lag between the generation and the occurence of the error
	are rarely made by front-line operators, and are consequently readily identified and detected by the monitoring, detection and warning links
	are mainly associated with the behaviour of front-line operators and are only detected after advanced problem-solving
	rapidly may be detected via their immediate consequences on the action in progress
544.	3,499 040 03 02 03 Theory and model of human error
	A system is all the more reliable if it offers good detectability. The latter is the result of: -1: tolerance of the various systems to errors2: the sum of the automatic monitoring, detection and warning facilities3: the reliability of the Man-Man and Man-Machine links4: the alerting capability of the Man-Machine interface.
	The combination of correct statements is:
	2 and 4
	1, 2 and 4
	1 and 3
(D)	3 and 4
545.	3,501 040 03 02 03 Theory and model of human error
	When can a system be said to be tolerant to error? When:
\boxtimes	the consequences of an error will not seriously jeopardise safety
	its safety system is too permeable to error
	its safety system has taken account of all statistically probable errors
	latent errors do not entail serious consequences for safety

546.	3,503 040 03 02 03 Theory and model of human error
	Once detected, an error will result in cognitive consequences which:
	make it possible to modify behaviour with a view to adaptation
	destabilize cognitive progress and maintain the error
	are prompted by inductive factors
	have virtually no interaction with behaviour
547.	3,543 040 03 02 03 Theory and model of human error
	Human behaviour is determined by:
	biological characteristics, social environment and cultural influences
	biological characteristics
	the social environment
	cultural influences
548.	5,644 040 03 02 03 Theory and model of human error
	The level of automation of behaviour-patterns facilitates the saving of resources and therefore of attention. On the other hand, it may result in :
\boxtimes	routine errors (slips)
	mistakes
	decision-making errors
	errors in selecting an appropriate plan of action
549.	5,729 040 03 02 03 Theory and model of human error
	What happens in problem-solving when the application of a rule allows for the situation
	to be resolved?
	Actions return to an automatic mode
	A switch is made to knowledge mode in order to refine the results
	A switch is made to knowledge- based mode in order to continue monitoring of the problem
	A second monitoring rule must be applied
550.	\$,730 040 03 02 03 Theory and model of human error
	problem-solving, what determines the transition from rules-based activities to a knowledge-based activity?
	The unsuitability of the known rules for the problem posed
	Attentional capture
	Knowledge of rules which apply to the problem posed
	The unsuitability of the automated actions

551.	5,732 040 03 02 03 Theory and model of human error
	Which of the following errors occur at rules-based level ?
	1.Omission
	2. The application of a poor rule
	3. Attentional capture4. The poor application of a good rule
	2,4
	1,2
	3,4
	1,3
552.	5,735 040 03 02 03 Theory and model of human error
	The descriptive aspect of errors according to Hollnagel's model describes various directly observable types of erroneous actions which are: 1. Repetition and omission
	2. The forward leap and the backward leap3. Intrusion and anticipation
	4. Intrusion
	1,2,4
	1,3
	2,4
	1,2,4 1,3 2,4 1,2,3
553.	2,722 040 03 02 04 Error generation
	What does the 'End Deterioration Effect'('Home-itis') mean?
	The tendency to sudden, imperceptible errors shortly before the end of a flight
	The result of a poor preflight planning
	The potential risk of loosing orientation after flying in clouds
	The breakdown of crew coordination due to interpersonal tensions between captain and co-pilot
554.	2,723 040 03 02 04 Error generation
	'Environmental capture' is a term used to describe which of the following statements? The tendency for a skill to be executed in an environment in which it is frequently exercised, even if it is inappropriate to do so
	2.The tendency for a skill acquired in one aircraft type to be executed in a new aircraft type, even if it is inappropriate to do
	so 3. The tendency for people bo behave in different ways in different
	social situations 4. The gaining of environmental skills
\square	1 and 2 are correct
	1, 2 and 3 are correct
	2 and 3 are correct
	4 is correct
	1 10 0011000

555.	3,411 040 03 02 04 Error generation
	Analysis of accidents involving the human factor in aviation shows that :
	there is hardly ever a single cause responsible
	only front-line operators are involved
	only pilot training will make it possible to improve the situation
	failure of the human factor is always connected with technical breakdowns
556.	3,500 040 03 02 04 Error generation
	To avoid wrong decisions by the pilot, an aircraft system should at least be able to
	report its malfunction
	report the deviation
	correct the deviation
	tolerate the deviation
557.	5,728 040 03 02 04 Error generation
	What may be the origins of representation errors? 1. Perception errors 2. The catering for all available information 3. Incorrect information from the observed world 4. The receipt of a bad piece of information
	1,3,4
	1,2
	3,4 2,3
550	
558.	5,731 040 03 02 04 Engr generation Under what circumstances will a pilot change from automated level to rule-based level?
\bowtie	When detecting, that an automated behaviour will no longer lead to the intended outcome
	Failure of all the known rules
	The appearance of a situation or problem which is unknown and completely new
	An automated cognitive check procedure
559.	5,734 040 03 02 04 Error generation
339.	Errors which occur during highly automated actions may result from :
Ť	1. the capture of a poor action subprogram 2. a mistake in the decision making process 3. the application of a poor rule 4. an action mode error
	1,4
	1,2
	3,4
	2,3,4

560.	5,736 040 03 02 04 Error generation
	What are the main characteristics of active errors ?
	They: 1. are detectable only with difficulty by first-line operators 2. have rapid and direct consequences on the action in progress 3. are down to first-line operators 4. have an impact on the overall action whose timing may be affected significantly
	2,3
	1,2
	3,4
	1,4
561.	6,964 040 03 02 04 Error generation
	The relationship which exists between crew error and flight safety :
	is dependent on the social and technical system and also on the operational context created by the system
	is a linear relationship which introduces crew training as the main factor
	is independent of the operational context, with the latter being identical for any flight operation
	has been evolving for 40 years and has now become independent of the social and technical system
562.	8,415 040 03 02 04 Error generation
	The effects of sleep deprivation on performance: 1. increase with altitude
	2. decrease with altitude 3. increase with higher workload 4. decrease with higher workload
	1 and 3 are correct
	1,2 and 3 are correct
	1, 3 and 4 are correct
	2, 3 and 4 are correct
563.	2,726 040 03 03 00 Decision making
	When a pilot is facing a problem during flight he should
	take as much time as he needs and is available to make up his mind
	always make up his mind quickly to give himself as much spare time as possible
	avoid making up his mind until the very last minute
	make up his mind before consulting other crew members

564.	2,727 040 03 03 00 Decision making
	The decision making in emergency situations requires firstly:
	distribution of tasks and crew coordination
	speed of reaction
	informing ATC thoroughly about the situation
	the whole crew to focus on the problem
565.	2,728 040 03 03 00 Decision making
	Which of the following abilities will not improve efficient decision making on the cockpit?
	Ability to persuade others to follow the own point of view.
	Communicational skills and social competence.
	Ability to search for and examine all available information regarding a situation.
	Ability to think ahead and specify alternative courses of action.
566.	2,729 040 03 03 00 Decision making
	The assessment of risk in a particular situation will be based on
	subjective perception and evalutation of situational factors
	external factors only
	the emergency checklist only
	situational factors only
567.	2,730 040 03 03 00 Decision making
	Once a pilot has developed a certain way of thinking about a problem he will probably
	find it difficult to get out of that way of thinking and difficult to try a different interpretation of the data
	find it difficult to stick to his/her interpretation of the data
	find it easy to interpret the data in different ways
	find it impossible to get out of that way of thinking, whatever happens
568.	2,731 040 03 03 00 Decision making
P.	maintain good situational awareness you should:) believe only in your own interpretation of the data (2) gather as much datas as possible from every possible source before making inferences (3) question whether your hypothesis still fits the situation as events progress and try to make time to review the situation (4) consider ways of testing your situational hypothesis to see whether it is correct
	2, 3 and 4 are correct
	all answers are correct
	1 and 4 are correct
	1 and 3 are correct

569.	3,403 040 03 03 01 Decision-making concepts
	Which of the following statements is correct regarding decision making?
	Deciding means choosing between alternatives.
	Deciding means being able to come up with original solutions.
	Deciding means imposing one's point of view.
	Deciding means applying an automatic procedure.
570.	3,546 040 03 03 01 Decision-making concepts
	Most accidents are mainly caused by lack of:
	good judgement
	physical skills
	interpersonal relations
	good maintenance of aircraft
571.	3,548 040 03 03 01 Decision-making concepts
	Judgement is based upon:
	a process involving a pilot's attitude to take and to evaluate risks by assessing the situation and making decisions based upon knowledge, skill and experience
	a decision making process involving physical sensations and their transfer to manually operate the aircraft controls
	the development of skills from constant practice of flight manoeuvres
	the ability to interpret the flight instruments
572.	5,693 040 03 03 01 Decision-making concepts
	Which problem may be overlooked in the process of making a decision?
	Owing to great haste, bypassing analysis of the current actual situation in order to apply the decision prepared beforehand
	Preparing decisions often leads to strategies of minimum commitment
	Preparing decisions promotes the appearance of inflexibilities
	The captain's superior knowledge, justified by his/her status
573.	5.694 040 03 03 01 Decision-making concepts
	in terms of decision-making, the intention to become integrated into the team, to be recognised as the leader or to avoid conflicts may lead to :
	the attempt to agree on decisions made by other crew members
	an authoritarian approach thus demonstrating ones own ability to lead
	the improvement of internal risk assessment capabilities
	the suggestion of a seguential solution in which everyone can contribute what he/she knows

574.	5,699 040 03 03 01 Decision-making concepts
	What strategy should be put in place when faced with an anticipated period of time pressure?
	A strategy of preparing decisions
	A non-sequential strategy
	A Laissez-faire strategy
	A strategy of no commitment
575.	5,707 040 03 03 01 Decision-making concepts
	Which biases relate to human decision making? 1. Personal experience tends to alter the perception of the risk of an event occurring 2. There is a natural tendency to want to confirm our decision even in the face of facts which contradict it 3. The group to which an individual belongs tends to influence the particular decision 4. There is natural tending to select only objective facts for decision-making purposes
\square	1,2,3
	1,2
	3,4
	1,2,4
576.	5,708 040 03 03 01 Decision-making concepts
	Habits and routine can influence decision-making in a way that:
	a tendency to select the most familiar solution first and foremost, sometimes to the detriment of achieving the best possible result
	one always wants to see previous experience confirmed by new decisions
	professional pilots will never question established procedures
	one always selects a choice in accordance with the company's usual practices
577.	5,710 040 03 03 01 Decision-making concepts
	Decision making can be influenced by the following factors:
	1. people tend to conform to opinions expressed by a majority within the group they belong to 2 people always tend to keep the future decisions in line with those their superiors have made in the past 3 people more easily tend to select data which meet the expectations 4. people hardly base decisions on their personal preferences but rather on rational information
	1. people tend to conform to opinions expressed by a majority within the group they belong to 2 people always tend to keep the future decisions in line with those their superiors have made in the past 3 people more easily tend to select data which meet the expectations 4. people hardly base decisions on their personal preferences but
	1. people tend to conform to opinions expressed by a majority within the group they belong to 2. people always tend to keep the future decisions in line with those their superiors have made in the past 3. people more easily tend to select data which meet the expectations 4. people hardly base decisions on their personal preferences but rather on rational information
	 people tend to conform to opinions expressed by a majority within the group they belong to people always tend to keep the future decisions in line with those their superiors have made in the past people more easily tend to select data which meet the expectations people hardly base decisions on their personal preferences but rather on rational information

578.	5,711 040 03 03 01 Decision-making concepts
	The DECIDE model is based on :
	a prescriptive generic model, taking into account the method which seems most likely to come up with the solution
	a prescriptive generic model which is subject to mathematical logic
	a normative generic model based on mathematical logic
	a statistical model based on observation of human decision-making
579.	5,717 040 03 03 01 Decision-making concepts
	Decision-making is a concept which represents :
	a voluntary and conscious process of selection, from among possible solutions, for a given problem
	an automated or automation-like act of applying defined procedures
	an automatic process of selection from among the various solutions to a given problem
	a spontaneous act of seeking the most effective solution in a given situation when faced with a defined problem
580.	5,719 040 03 03 01 Decision-making concepts
	Which of the following characteristics form part of decision-making on the flight deck?
	A good decision depends on analysis of the situation
	A decision is only valid in a defined and delimited time
	A good decision can always be reversed if its result does not come up to expectations
	A group decision must always be established prior to action
581.	5,721 040 03 03 01 Decision-making concepts
~	In decision-making, the selection of a solution depends: 1. on objective and subjective criteria 2. on the objective to be achieved 3. on the risks associated with each solution 4. above all on the personality of the decision-maker
	1,2,3,4
	4
582.	5,722 040 03 03 01 Decision-making concepts
	Decision-making results in:
	a choice between different solutions for achieving a goal
	a choice always based on the experience of the PIC
	an objective choice concerning applicable solutions for a given end
	a subjective choice concerning applicable solutions

583.	6,915 040 03 03 01 Decision-making concepts
	The confirmation bias of decision making is
	a tendency to ignore that information which indicates that a decision is poor;
	a tendency not to seek for information which confirms a judgement
	a tendency not to look for information which would reassure oneself about a decision
	a tendency to look for facts that confirm expectations before implementing one's decision
584.	3,549 040 03 04 01 Safety awareness
	The relevance of check procedures during flight becomes even more important when:
	flying an unfamiliar type of aircraft and experiencing mental pressure
	flying an aircraft which you have flown recently
	conducting a longer flight than you would normally perform
	flying an aircraft which you have flown many times before
585.	3,550 040 03 04 01 Safety awareness
	Which of the following responses is an example of "habit reversion" (negative habit transfer):
	A pilot who has flown many hours in an aircraft in which the fuel lever points forward for the ON position, may unintentionally turn the fuel lever into the false position, when flying a different aircraft, where the fuel lever has to point aff to be in the ON position
	Turning and aircraft to the left when intending to turn it to the right
	Incorrect anticipation of an air traffic controller's instructions
	habitually missing an item on the checklist or missing the second item when two items are on the same line
586.	3,551 040 03 04 01 Safety awareness
	Although the anticipation of possible events is a good attitude for pilots to acquire, it can sometimes lead to hazardous situations. With this statement in mind, select the response below which could lead to such a hazard:
	mishearing the contents of a reply from an air traffic controller when a non-standard procedure was given but a standard procedure was anticipated
	anticipating that the weather may deteriorate
	apticipating that the flight will take longer time than planned
Ø	anticipating the sequence of items on a check list.

587.	6,874 040 03 04 01 Safety awareness
	The following course of action must be taken if gastrointestinal or cardiopulmonary complaints or pain arise before take-off: -1: take the standard medicines and advise the doctor on returning from the flight -2: assess your own ability to fly, if necessary with the help of a doctor -3: if in doubt about fitness to fly - do not fly! -4: reduce the cabin temperature, and drink before you are thirsty
	so as to avoid dehydration
	2,3
	1,3
	1,4
	1,2,4
588.	8,451 040 03 04 01 Safety awareness
	You are transporting a passenger who has to be at a certain destination for a meeting. The weather forcast at destination tends to be much worse than expected, so you consider to divert. The businessman offers you money if you manage to land there at any case. What is your appropriate way of action? You will
	decide to divert if you think it is necessary.
	continue and think about the nice things you can buy from the money
	divert in any case to demonstrate who s the man in charge aboard
	see what you can do and ask the copilot to tolerate any decision
589.	2,732 040 03 04 02 Co-ordination (multi-crew concepts)
	Doing a general briefing in the preflight phase the captain should emphasize
	particular requirements in the field of crew coordination due to specific circumstances
	complete delegation of all duties
	to depart on schedule
	to avoid inadequate handling of flight controls

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590. 3.438 040 03 04 02 Co-ordination (multi-crew concepts) Of the following statements, which apply to coordinated cooperation? -1: It allows for synergy in the actions between the captain and the pilot. -2: It represents the simultaneous execution of a single action by the various members of the crew. -3: Communication in this mode has the function of synchronizing actions and distributing responsibilities. -4: Communication must be essentially focussed on temporal and cognitive synchronisation. The correct statement(s) is (are): 1 and 3 X1.2 and 4 2 and 3 1 and 4 591. 3,439 040 03 04 02 Co-ordination (multi-crew concepts) What are the advantages of coordination? Redundancy, synergy, clarification of responsibility Cooperation, cognition, redundancy. Interaction, cognition, redundancy Redundancy, exploration, risky shift. 592. 3,441 040 03 04 02 Co-ordination (multi-crew concepts) Coaction is a mode of coordination which recommends: working parallel to achieve one common objective working parallel to achieve individual objectives sustained copperation on actions and the formulation of commitments concerning flight situations the application of procedural knowledge in the conduct of specific actions 593. 3,459 040 03 04 02 Co-ordination (multi-crew concepts) Which of the following statements concerning check list is correct? The most important items should be placed at the beginning of a check list since attention is usually focused here The most important items must be placed at the end of check list, allowing them to be kept near at hand so that they are quickly available for any supplementary check The most important items must be placed in the middle of check list so that they come to be examined once attention is focused but before concentration starts to wane All the items of a check list are equally important; their sequence is of no importance

594.	3,460 040 03 04 02 Co-ordination (multi-crew concepts)
	Which of the following statements are correct with regard to the design of a check list? -1: The longer a check list, the more it must be subdivided into logical parts.
	-2: The trickiest points must be placed in the middle of the check
	list3 : Check lists must be designed in such a way that they can be lumped together with other tasks.
	 -4 : Whenever possible, a panel scan sequence should be applied -5 : Critical points should have redundancies.
	The combination of correct statements is:
	1, 4 and 5 are correct
	1, 2 and 3 are correct
	1, 2 and 5 are correct
	1, 3 and 5 are correct
595.	3,461 040 03 04 02 Co-ordination (multi-crew concepts)
	The use of check lists must be carried out in such a way that:
	their execution must not be done simultaneously with other actions
	their execution may be done simultaneous with other actions
	their execution is not lumped together with important tasks
	it may be rejected since redundancy in the following check list will serve as verification
596.	3,471 040 03 04 02 Co-ordination (multi-crew concepts)
	The purpose of action plans which are implemented during briefings is to:
	initiate procedures and reactions for situations that are most likely, risky or difficult during the flight
	define general planning of the flight plan
	allow everyone to prepare their own reactions in a difficult situation
	activate a collective mental schema with respect to non-procedural actions to be carried out
597.	3,473 040 03 04 02 Co-ordination (multi-crew concepts)
	in order to overcome an overload of work during the flight, it is necessary to: : know how to use one's own reserve of resources in order to ease the burden on the crew. -2: divide up tasks among the crew. -3: abandon automatic mode and instead process as much information as possible consciously. -4: drop certain tasks and stick to high-level priorities.
	The correct statement(s) is (are):
	1, 2 and 4 are correct
	1 and 3 are correct
	1, 2 and 3 are correct
	3 and 4 are correct

598.	3,554 040 03 04 02 Co-ordination (multi-crew concepts)
	The person with overall responsibility for the flight is the -1 Pilot in Command -2 Co-pilot -3 Navigator
	-4 Air traffic controller
	The correct statement(s) is (are):
	1
	1 and 2
	2 and 3
	4
599.	4,134 040 03 04 02 Co-ordination (multi-crew concepts)
	The trend in airplane hull-loss rate over the last three decades seems to be related to :
	the crew
	the manufacturer
	the number of engines
	the year of manufacture
600.	6,855 040 03 04 02 Co-ordination (multi-crew concepts)
	Action plans (SOP's) in a cockpit must:
	be shared by the members of the crew and updated at each modification in order to maintain maximum synergy
	be tailored to the individual pilot's needs in order to facilitate the normal operation of the aircraft
	only be tailored to the type of aircraft, regardless of current MCC procedures
	only follow the manufacturers proposals and not reflect individual operators cockpit philosophies
601.	511 040 03 04 03 Co-operation
	The "ideal professional pilot" is, in his behaviour,
	" "person" and " goal" oriented"
	"rather " person" than " goal" oriented"
	neither " person" nor " goal" oriented"
	"rather " goal" than " person" oriented"

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602.	2,733 040 03 04 03 Co-operation
	During the preparational work in the cockpit the captain notices that his copilot on the one hand is rather unexperienced and insecure but on the other hand highly motivated. Which kind of leadership behaviour most likely is inappropriate?
	The captain lets the copilot fly and observes his behaviour without any comments
	The captain flies the first leg by himself and explains each action to the copilot in order to keep him informed about his decisions
	The captain lets the copilot fly and gives him detailled instructions what to do
	The captain lets the copilot fly and encourages him frankly to ask for any support that needed
603.	2,734 040 03 04 03 Co-operation
	Which one of the following statements characterizes a democratic and cooperative leadership style? If conflicts evolve, the leader
	tries to clarify the reasons and causes of the conflict with all persons involved
	mainly tries to reconcile all persons involved in the conflict and tries to reestablish a nice and friendly atmosphere within the team
	keeps a neutral position and does not participate in arguing
	decides what to do and pushes his own opinion through
604.	2,735 040 03 04 03 Co-operation
	Which of the following sentences concerning crew-performance is correct?
	The quality of crew-performance depends on the social-competence of individual team members
	To be a member of a team cannot increase one's own motivation to succeed in coping with task demands
	Mistakes can always be detected and corrected faster by the individual
	The quality of crew-performance is not dependent on social-competence of individual team members
605.	2,736 040 03 04 03 Co-operation
	Informal roles within a crew
	evolve as a result of the interactions that take place among crew members
	are explicitely set out by the crew
	do not impair the captain's influence
	characterize inefficient crews
606.	2,737 040 03 04 03 Co-operation
	Which statement is correct? Crew decision making is generally most efficient, if all crew members concerned
	adapt their management style to meet the situational demands
	are always task oriented
	are always relationship oriented
	always ask the captain what to do

607.	2,738 040 03 04 03 Co-operation
	Which behaviour does most likely promote a constructive solution of interpersonal conflicts?
	Active listening.
	Responding with counter-arguments.
	Staying to the own point of view.
	Giving up the own point of view.
608.	2,739 040 03 04 03 Co-operation
	The team spirit of a cockpit-crew most likely depends on
	both pilots respecting each other and striving for the same goals
	both pilots wearing the same uniform
	both pilots flying together very often for a long period
	both pilots having the same political and ideological attitude
609.	2,740 040 03 04 03 Co-operation
	During the cruising phase of a short-haul flight the captain starts to smoke a cigarette in the cockpit. The flying copilot asks him to stop smoking because he is a non-smoker. The captain tells him: 'This is your problem' and continues smoking. What should the copilot do?
	He should not further discuss this issue but should come back to this conflict during the debriefing
	He should learn to accept the captain smoking cigarettes in the cockpit
	He should repeat his worries about smoking in the cockpit and should argue with the captain about this problem until the conflict is solved
	He should report the chief pilot about this behaviour of the captain
610.	2,741 040 03 04 03 Co-operation
	How would you call the leadership style of a captain who primarily is interested in a friendly atmosphere within his crew, who is always constructive and encouraging, who usually compromises in interpersonal conflicts, who trusts in the capabilities of his crew-members, and who leaves the crew freedom for own decisions, even if this makes the process more difficult?
\boxtimes	Low task-orientation and high relationship-orientation
	High task-orientation and low relationship-orientation
	High task-orientation and high relationship-orientation
	Low task-orientation and low relationship-orientation

611.	2,742 040 03 04 03 Co-operation
	If the copilot continuosly feels unfairly treated by the captain in an unjustified way, then he should
	duly point out the problem, reconcentrate on his duties and clear the matter in a more appropriate occasion
	freeze the communication and thus avoid immediate confrontation
	speak up and point at consequencies if unfair behaviour persists
	internally retire and think positive
612.	2,747 040 03 04 03 Co-operation
\square	Mark the two most important attributes for a positive leadership style: (1) dominant behaviour (2) examplary role-behaviour (3) mastery of communication skills (4) " Laissez-faire" behaviour 2 and 3
	1 and 4
	1 and 3
	2 and 4
613.	3,454 040 03 04 03 Co-operation
	What are typical consequences of conflicts between crew members? -1 The quality of work performance decreases as a result of the impoverishment of communications -2 A decrease in the quality of communications -3 In the case of a crew made up of experts, conflicts only result in a deterioration in relations between the individuals -4 A decrease in the usage of available resources on the flight deck
	The correct statement(s) is (are):
	1, 2 and 4 are correct
	2, 3 and 4 are correct
	1,3 and 4 are correct
	1,2 and 3 are correct
614.	3,547 040 03 04 03 Co-operation
	Pilots are more easily inclined to take greater risks when:
	they are part of a group of pilots and they feel that they are beeing observed and admired (e.g. air shows)
	making decisions independently of others
	they are not constrained by time
	making a flight over unfamiliar territory

615.	5,664 040 03 04 03 Co-operation
	What elements establish synergy within the crew ?
	Synergy must be built up from the start of the mission (briefing) and be maintained until it comes to an end (debriefing)
	Synergy establishes itself automatically within the crew, right through from briefing to debriefing
	Synergy is independent of the natural individual characteristics of the group members (communication, mutual confidence, sharing of tasks, etc.)
	It is only the captain's status which allows the establishment of synergy within the crew
616.	5,666 040 03 04 03 Co-operation
	Which of the following statements best characterise a synergetic cockpit? 1. Decisions are taken by the captain, but prepared by the crew 2. There is little delegating of tasks 3. Communications are few in number but precise and geared purely to the flight 4. Fluid, consensual boundaries exist in regard to leadership-style, which fluctuate between authority and laissez-faire
	1,4
	1,3,4
	2,3
	2,4
617.	5,667 040 03 04 03 Co-operation Which of the following statements best characterise a self-centered cockpit ?
	Without taking note of what the other members are doing, each one does his own thing while at the same time assuming that everyone is aware of what is being done or what is going on
	The egocentric personality of the captain often leads to a synergetic cockpit
	The communication between crew members always increases when the captain takes charge of a situation
	While decreasing communication, the independence of each member bolsters the crew's synergy
618.	5,668 040 03 04 03 Co-operation
	What may become the main risk of a " laissez-faire" cockpit?
$\boxtimes_{\mathcal{S}}$	Inversion of authority
	Lack of communication
K	Appearance of agressiveness
	Disengagement of the co-pilot

619.	5,669 040 03 04 03 Co-operation
	What is characterized by a " laissez-faire" cockpit ?
	A passive approach by the captain allows decisions, choices and actions by other crew members
	Each member carries out actions and makes choices without explicity informing the other members about them
	The captain's authority rules all the actions or decisions associated with the situation
	The high level of independence granted to each member by the captain quickly leads to tension between the various crew members
620.	5,670 040 03 04 03 Co-operation
	What are the most frequent and the least appropriate reactions on the part of a co-pilot when faced with a highly authoritarian captain? 1. Self-assertion 2. A scapegoat feeling 3. Delayed reactions to observed discrepancies 4. Disengagement
	2,3,4
	1,2
	3,4
	1,3,4
621.	5,671 040 03 04 03 Co-operation
	What are the most frequent results of an self-centred captain on the flight deck?
	In a two-pilot flight deck, the co-pilot is ignored and may react by disengaging, showing delayed responses or demonstrate the scapegoat effect
	High group performance despite the strained relations
	A major risk of authority inversion if the co-pilot is inassertive
	Performance is very poor as self-centred behaviour leads to an increase of cooperation and efficiency
622.	5,673 040 03 04 03 Co-operation
	An autocratic cockpit is described by :
	The captain's excessive authority cosiderably reduces communications and consequently the synergy and cohesion of the crew
9	Despite the overly strong authority of the captain, everything functions correctly owing to his natural leadership
	Each of the members chooses what job to do without telling the others and in the belief that everyone is aware of what he is doing
	The atmosphere is relaxed thanks to a captain who leaves complete freedom to the various members of the crew

623.	5,675 040 03 04 03 Co-operation
	What optimises crew co-operation? 1. Sharing and common task 2. Confidence in each others capability 3. Precise definition of functions associated with each crew members role
	1,2,3
	1
	1,2
	2,3
624.	5,676 040 03 04 03 Co-operation
	What distinguishes status from role ?
	While role defines- via behaviour- the functions that must be performed by individuals, status defines the enjoyment of a hierarchical position and its recognition by the group
	While role defines the enjoyment of a hierarchical position and its recognition by the group, status defines - via behaviour- the functions that must be performed by individuals
	Unlike status, role is fixed and is not modified either by the situation in flight or by the interactions of a new crew
	Unlike status, role is fixed and is modified either by the situation in flight or by the interactions of a new crew
625.	5,679 040 03 04 03 Co-operation
	What characterises the notion of role?
	The function and behaviour associated with the particular role
	Only the functions associated with role
	The characteristic behaviour associated with the description of the various roles of a particular status
	The hierarchical position of the function and the associated behaviour
626.	5,686 040 93 04 03 Co-operation
	What is systergy in a crew ?
	The coordinated action of all members towards a common objective, in which collective performance is proving to be more than the sum of the individual performances
	A behavioural expedient associated with the desynchronisation of the coordinated actions
	The coordinated action of unrelated individual performances in achieving a non-standard task
	The uncoordinated action of the crewmembers towards a common objective
627.	6,907 040 03 04 03 Co-operation
	Safety is often improved by applying the principles of CRM, e.g.:
	expression of one's doubts or different opinion for as long as this doubt can not be rejected on the base of evidence
	unquestioned obedience to all the Captain's decisions
	abstention from any suggestion which might be untimely
	the avoidance of any conflict in order to preserve the crew's synergy

628.	6,908 040 03 04 03 Co-operation
	An efficient flight deck (synergetic cockpit) will be observed when:
	decisions are taken by the Captain with the help and participation of the other crew members
	the plan of action is defined by the Captain because of his experience level
	the Captain delegates the decision making process to other crew members
	decisions do not need to be discussed because of a common synergy between the crew members
629.	6,909 040 03 04 03 Co-operation
	An non-synergetic cockpit :
	is characterised by withdrawn crewmembers and unclear communication
	is characterised by a highly efficient crew, communicating appropriately with the outside
	always results from an over-relaxed atmosphere
	is not very dangerous as each person checks everything personally
630.	6,913 040 03 04 03 Co-operation
	CRM (Crew Resource Management) training is:
	intended to develop effectiveness of crew performance by improving attitudes towards flight safety and human relationship management
	not intended to change the individual's attitude at all
	intended solely to alter an individual's personality;
	is mainly of relevance to pilots with personality disorders or inappropriate attitudes
631.	2,685 040 03 04 04 Communication
	Which combination of elements guarantee the understanding of a message without adding new information to it?
	Feedback.
	Coding.
	Synchronization.
	Encoding.
632.	2,690 040 03 04 04 Communication
	The process of responding to a sender by confirming the reception of a message is called
\boxtimes	feedback
	redundancy
	synchronization
	transference

633.	2,743 040 03 04 04 Communication
	What does not apply to a constructive and helpful feedback?
	Feedback should always state bluntly the personal failings of the receiver
	It should be individually tailored to the receiver's background
	It should be formulated subjectively and personally ('I' instead of 'one')
	It should be actual and specify in regard to the concerned situation
634.	2,744 040 03 04 04 Communication
	Which statement is correct?
	Problems in the personal relation between crew members very likely hamper their communication process.
	There is no relation between inadequate communication and incidents or accidents.
	Inconsistent communication behaviour improves flight safety.
	Problems in the personal relation between crew members hardly hamper their communication process.
635.	2,745 040 03 04 04 Communication
	What is the sender's frequent reason to communicate implicitly ('between the lines')?
\boxtimes	Afterwards he/she always can claim to have been misunderstood.
	There is no need to make up one's mind before starting to communicate.
	The receiver grasps quickly what the sender means.
	He/she has not to adjust to the communication style of the communication partner.
636.	2,746 040 03 04 04 Communication
	Metacommunication is defined as
\boxtimes	communicating about the communication
	balancing the own ideas and interests with those of the interlocutor
	having ar assessment conversation
	active listening
637.	2,748 040 03 04 04 Communication
	In individually given feedback improves communication. Which of the following rules should a feedback comply with?
	The feedback should always relate to a specific situation.
	The feedback should only be given if requested by the captain.
	The receiver of the feedback should immediately justify his behaviour.
	The feedback should not be referred to a concrete situation.

638.	2,749 040 03 04 04 Communication
	Nonverbal communication
	supports verbal communication
	is of no meaning in the cockpit
	is always used intentionally
	should be avoided by all means in the cockpit
639.	2,750 040 03 04 04 Communication
	How do you understand the statement 'one cannot not communicate'?
	Beeing silent as well as inactive are nonverbal behaviour patterns which express a meaning.
	Each situation requires communication.
	You cannot influence your own communication.
	The statement above is a missprint.
640.	2,751 040 03 04 04 Communication
	Which elements of communication are prone to malfunctioning?
	The sender and the receiver as well as coding and decoding
	Coding and decoding
	The sender
	The receiver
641.	2,752 040 03 04 04 Communication
	Discussing private matters in the cockpit
	can improve team spirit
	should be avoided by all means in the cockpit
	is appropriate in any phase of flight
	decreases the captains role of leadership
642.	3.413 049 03 04 04 Communication
2	which of the following statements concerning communication is valid?
8	Professional communication means: using a restricted and specific language, tailored to minimize misunderstandings.
	Professional communication means to exchange information as little as possible.
	The syntax of communication is of little importance to its success. Only the words uttered are important.
	Communication must take priority over any other flight activity under all circumstances

643.	3,440 040 03 04 04 Communication
	Of the following statements, select those which apply to " information"1: It is said to be random when it is not intended for receivers2: It is intended to reduce uncertainty for the receiver3: It is measured in bits4: Each bit of information reduces uncertainty by a quarter.
	The correct statement(s) is (are):
	2 and 3 are correct
	1,2,3 and 4 are correct
	2,3 and 4 are correct
	only 1 is correct
644.	3,443 040 03 04 04 Communication
	Success in achieving the objectives of a message requires:
	the matching of verbal, non-verbal and contextual meanings
	differences in contexts for the sender and the receiver
	a form of the message, which should not match the expectation of the receiver
	different codes between form and meaning
645.	3,445 040 03 04 04 Communication
	In order to make communication effective, it is necessary to: -1: avoid the synchronization of verbal and non-verbal channels2: send information in line with the receiver's decoding abilities3: always concentrate on the informational aspects of the message only4: avoid increasing the number of communication channels, in order to simplify communication.
	The correct statement(s) is (are):
	only 2 is correct
	1,2 and 3 are correct
	3 and 4 are correct
	2 and 4 are correct

646.	3,446 040 03 04 04 Communication
	Which of the following statements regarding interpersonal interactions are correct? -1 If the sender finds the receiver competent, he/she tends to reduce verbal redundancy content of his sentences -2 If the interlocuter is of non-native tongue, the sender will reinforce what he is saying by using more complicated words so as to optimize understanding -3 If he/she finds him incompetent, he tends to simplify the content of sentences -4 Simplification of check list in a crew who know each other essentially takes place in the case of interpersonal conflict
	The correct statement(s) is (are):
	1 and 3 are correct
	1 and 2 are correct
	2 and 3 are correct
	3 and 4 are correct
647.	3,448 040 03 04 04 Communication
	Professional languages have certain characteristics, for example: -1: They use a limited vocabulary2: They are rich and adapted to the context, which sometimes lead to ambiguities3: Their grammar is rather complicated and complex4: Context provides meaning, therefor reduces the risk of ambiguities.
	The correct statement(s) is (are):
	1 and 4 are correct
	1 and 3 are correct
	2 and 3 are correct
	only 4 is correct
648.	3,449 040 93 04 04 Communication
	A study by NASA has examined the relationships between incidents linked with ground-to-crew communication. Which of the following factors is the main reason for disturbances in the correct reception of a message?
	Listening errors.
	Errors in understanding clearance values.
	Radio failure.
	Mother tongue differing from working language.

649.	3,450 040 03 04 04 Communication
	An increase in workload usually leads to:
	a shorter and less frequent exchange of information
	a longer and less frequent exchange of information
	a shorter and more frequent exchange of information
	a longer and more frequent exchange of information
650.	3,451 040 03 04 04 Communication
	With regard to communication in a cockpit, we can say that:
	communication uses up resources, thus limiting the resources allocated to work in progress
	communication is always sufficiently automated to enable an activity with a high workload element to be carried out at the same time
	communication is only effective if messages are kept short and sufficiently precise to limit their number
	all the characteristics of communication, namely output, duration, precision, clarity, etc. are stable and are not much affected by changes in workload
651.	3,452 040 03 04 04 Communication
	-1: give priority and adapt to the sender's situation2: acknowledge the receipt only in case of doubt3: be able to reject or postpone a communication attempt if the pilot is too busy4: stabilize or finish a challenging manoeuvre before starting a discussion.
	The combination of correct statements is:
	3 and 4 are correct 1,2 and 4 are correct
	1 and 2 are correct
	2 and 3 are correct
652.	3.455 049 03 04 04 Communication
	Different non-technical related opinions between pilots from different cultural backgrounds might be seen in connection with: 1: the variations of technical training and skills. 2: communication problems. 3: conflicting ways of management. 4: interpersonal problems.
	The combination of correct statements is:
	2,3 and 4 are correct
	1, 2 and 4 are correct
	only 1 is correct
	2 and 3 are correct

653.	3,456 040 03 04 04 Communication
	The use of modern technology applied to glass-cockpit aircraft has:
	facilitated feedback from the machine via more concise data for communication on the flight deck
	considerably improved all the communication facilities of the crew
	reduced the scope for non-verbal communication in interpersonal relations
	improved man-machine communication as a result of flight sensations
654.	3,457 040 03 04 04 Communication
	In a glass-cockpit aircraft, communication between the members of the crew:
	does not loose its importance
	will increase as a result of the increase of technical dissemination of information
	will be hampered by the decrease in actions brought about by technical improvements
	are facilitated from the non-verbal point of view owing to the increased availability wich results from technical lightening of the workload
655.	3,458 040 03 04 04 Communication
	What are the communication qualities of a good briefing? A good briefing must: -1: contain as much information and be as comprehensive as possible. -2: be of a standard type so that it can be reused for another flight of the same type. -3: be short and precise. -4: be understandable to the other crew member(s).
	The correct statement(s) is (are):
	2,3 and 4 are correct 1 and 2 are correct
	1, 2 and 4 are correct
	1 and 4 are correct
656.	3 493 040 03 04 04 Communication
2	With regard to the practice of English, which of the following statements is correct?
	All pilots should master it because the aeronautical world needs one common language.
	Be familiar with normal procedures in English since only this allows for effective management of any flight's communication.
	It is necessary and sufficient to have a command of any of the official languages of the ICAO.
	The composition of every crew should be geared to a command of the official aeronautical language of the destination country.

657.	5,663 040 03 04 04 Communication
	Which of the following solutions represent antidotes to conflicts? 1. Seeking arbitration 2. Actively listening to other people 3. Abandoning facts so as to move the conversation to a more emotional level 4. Becoming aware of cultural influences
	1,2,4
	1,2,3
	2,3,4
	2,4
658.	5,687 040 03 04 04 Communication
	Which of the following statements concerning conflicts is correct?
	Conflict management involves the participation of all involved parties in finding an acceptable collective solution
	Whatever the cause of the conflict, its resolution must necessarily involve an additional party if it is to be effective
	Conflicts are negative in themselves and can only read to a general detachment of involved parties
	The emergence of a conflict always results from calling into question the general abilities of one of the involved parties
659.	3,435 040 03 05 00 Personality
	With regard to the average influence of age on pilot performance, it may be said that age:
	has little impact when the pilot is able to compensate for it by his/her flight experience
	sharply reduces performance without, however, affecting cognitive capabilities
	has a major impact owing to the impairment of memory
	increases in impact as speed of thought and memory deteriorate
660.	2,677 040 03 05 01 Personality and attitudes
	Attitudes are defined as:
	tendencies to respond to people, institutions or events either positively or negatively
	the conditions necessary for carrying out an activity
	the genetic predispositions for thinking and acting
	a synonym for behaviour
661.	2,712 040 03 05 01 Personality and attitudes
	Which of the following behaviours is most disruptive to teamwork under high workload conditions in the cockpit?
	Mentally absent.
	Sensitive.
	Disciplined.
	Jovial.

662.	5,683 040 03 05 01 Personality and attitudes
	Contrary to a person's personality, attitudes:
	Are the product of personal disposition and past experience with reference to an object or a situation
	form part of personality and that, as a result, they cannot be changed in an adult
	are non-evolutive adaptation procedures regardless of the result of the actions associated with them
	are essentially driving forces behind changes in personality
663.	5,684 040 03 05 01 Personality and attitudes
	Which of the following elements make up the personality of an individual ? 1. Heredity 2. Childhood environment 3. Upbringing 4. Past experience
	1,2,3,4
	1,2,4
	2,3
	2,3,4
664.	6,912 040 03 05 01 Personality and attitudes
	The effectiveness of the individual depends on:
	the ability to balance the dictates of the individual's needs and the demands of reality
	the ability to repress the dictates of needs
	the ability to go beyond one's own capabilities
	the total independence with respect to the environment
665.	2,708 040 03 05 02 Individual differences in personality
	Very high ambition and need for achievement
	disturbe the climate of cooperation
	fulfil the requirements of stress resistance
	always promote teamwork
	mproves the coping process with personal failures
666.	2,711 040 03 05 02 Individual differences in personality
	Which of the following personality characteristics makes crew decision making most effective?
	Assertiveness.
	Competitiveness.
	General intelligence.
	Friendliness.

667.	2,713 040 03 05 02 Individual differences in personality
	A copilot has passed an upgrading course to become a captain. Which psychological consequence is most likely?
	His/her self-concept is going to change because of new roles and tasks which have to be incorporated.
	His/her self -concept is going to be stabilized because of the higher status as a captain.
	The increased command authority leads to a higher professionalism.
	An upgrading does not have any of the mentioned psychological consequences.
668.	3,553 040 03 05 03 Identification of hazardous attitudes (error proneness)
	Which of the following responses lists most of the common hazardous thought patterns (attitudes) for pilots to develop?
	Anti-authority, impulsiveness, invulnerabilty, resignation, machismo complex
	Invulnerability, underconfidence, avoidance of making decisions, lack of situational awareness
	Machismo complex, resignation, confidence, self critcism
	Resignation, confidence, inattention
669.	4,135 040 03 05 03 Identification of hazardous attitudes (error preneness)
	Which of the following is NOT an hazardous attitude?
	Domination
	Macho
	Anti-authority Anti-authority
	Impulsivity
670.	2,703 040 03 06 01 Arousal
	The relationship between arousal and flying performance is
	approximately the form of an inverted U
	approximately linear increasing
	approximately exponential
	approximately sinusoidal
671.	2,704 040 03 06 01 Arousal
0	n a complex task high levels of arousal
	narrow the span of attention
	improve performance
	lead to better decision-making
	reduce failures

672.	2,720 040 03 06 01 Arousal
	A high level of motivation is related
	to high levels of arousal
	to high levels of intelligence
	to complacency
	to monotony states
673.	3,555 040 03 06 01 Arousal
	If during flight a pilot is in a mental condition of " optimum arousal" he/she will be:
	prepared best to cope with a difficult task
	unprepared to handle a difficult situation
	approaching a condition of complacency or fatigue
	in a confused mental state
674.	8,431 040 03 06 01 Arousal
	An identical situation can be experienced by one pilot as exciting in a positive sense and by another pilot as threatening. In both cases:
	the arousal level of both pilots will be raised
	both pilots will loose their motor-coordination
	both pilots will experience the same amount of stress
	the pilot feeling threatened, will be much more relaxed, than the pilot looking forward to what may happen
675.	8,461 040 03 06 01 Arousal
	Please check the following statements: 1. A stressor causes activation
	2. Activation stimulates a person to cope with it
	1 and 2 are both correct
	1 is correct, 2 is not correct
	1 is not correct, 2 is correct
	and 2 are both not correct
676	426 040 03 06 02 Stress
R	What are easily observable indications of stress?
	Perspiration, flushed skin, dilated pupils, fast breathing.
	Lowering of the blood pressure.
	Faster, deep inhalation, stabbing pain around the heart.
	Rising of the blood pressure, pupils narrowing, stabbing pain around the heart.

677.	3,414 040 03 06 02 Stress
	Which of the following statements is true?
	Stressors accumulate thus increasing the likelihood to exhaustion.
	Stressors are independent from each other.
	Stress should always be avoided under any circumstances.
	People are capable of living without stress.
678.	3,415 040 03 06 02 Stress
	How should a pilot react, when suffering from chronic stress?
	Attempt to reduce the stress by using a concept which approaches the entire body and improves wellness.
	Use moderate administration of tranquillizers before flight.
	Ignore the particular stressors and increase your physical exercises.
	Always consult a psychotherapist before the next flight.
679.	3,416 040 03 06 02 Stress
	In case of in-flight stress, one should :
	use all available resources of the crew
	only trust in oneself; beeing sure to know the own limits
	demonstrate aggressiveness to stimulate the crew
	always carry out a breathing exercise
680.	3,417 040 03 06 02 Stress
	The behavioural effects of stress may include : -1 : manifestation of aggressiveness.
	-2 : a willingness to improve communication.
	-3 : a willingness for group cohesion.
	-4 : a tendency to withdrawl5 : inappropriate gestural agitation.
	The Action of a smart statement is
	The combination of correct statements is :
	1 and 4 are correct
	1,2 and 3 are correct
	2,4 and 5 are correct

681.	3,418 040 03 06 02 Stress
	The cognitive effects of stress may include: -1: excessive haste2: an improvement in memory3: a complete block: action is impossible4: a risk of focusing on a particular aspect5: ease of decision-making6: an increase in the rate of mistakes.
	The combination which brings together all correct statements is :
	1,3,4,6
	1,2,5
	2,3,5,6
	3,4,5
682.	3,419 040 03 06 02 Stress
	What is the effect of stress on performance? -1: It always reduces performance2: Optimum performance is obtained with optimum arousal3: Excessive stress weakens performance4: Insufficient stress weakens performance.
	- Inches
	The combination of correct statements is:
	The combination of correct statements is
	The combination of correct statements is: 2,3,4
683.	The combination of correct statements is: 2,3,4 1,2,3 1,3,4
683.	The combination of correct statements is: 2,3,4 1,2,3 1,3,4 1,2,4
683.	The combination of correct statements is: 2,3,4 1,2,3 1,3,4 1,2,4 3,420 040 03 06 02 Stress What are the characteristics of the alarm phase of the stress reactions? -1: increased arousal level as a result of adrenaline secretion2: an increase in heart rate, respiration and release of glucose3: a decrease in stress resistance4: activation of the digestive system.
683.	The combination of correct statements is: 2,3,4 1,2,3 1,3,4 1,2,4 3,420 040 03 06 02 Stress What are the characteristics of the alarm phase of the stress reactions? -1: increased arousal level as a result of adrenaline secretion2: an increase in heart rate, respiration and release of glucose3: a decrease in stress resistance4: activation of the digestive system5: secretion of cortisol to mobilize attention.
683.	The combination of correct statements is: 2,3,4 1,2,3 1,3,4 1,2,4 3,420 040 03 06 02 Stress What are the characteristics of the alarm phase of the stress reactions? -1: increased arousal level as a result of adrenaline secretion2: an increase in heart rate, respiration and release of glucose3: a decrease in stress resistance4: activation of the digestive system5: secretion of correct statements is:
683.	The combination of correct statements is: 2,3,4 1,2,3 1,3,4 1,2,4 3,420 040 03 06 02 Stress What are the characteristics of the alarm phase of the stress reactions? -1: increased arousal level as a result of adrenaline secretion. -2: an increase in heart rate, respiration and release of glucose. -3: a decrease in stress resistance. -4: activation of the digestive system. 5: secretion of corrisol to mobilize attention. The combination of correct statements is: 1,2,3

684.	3,421 040 03 06 02 Stress
	What are the three phases of General Adaptation Syndrome?
	Alarm, resistance, exhaustion.
	Alert, resistance, performance.
	alarm, resistance, performance,
	alert, resistance, exhaustion
685.	3,422 040 03 06 02 Stress
	The organism is mobilized by a process known as:
	GAS : General Adaptation Syndrome
	NAS : Natural Adaptation Syndrome
	GMS : General Mobilization Syndrome.
	GAF : General Adaptation Function.
686.	3,423 040 03 06 02 Stress
	What is the most decisive factor in regard to a very demanding stress situation?
	The subjective evaluation of the situation by the individual.
	The time available to cope with the situation
	The objective threat of the situation.
	The unexpected outcome of the situation.
687.	3,424 040 03 06 02 Stress
	Stress appears: -1: only in a situation of imminent danger2: only when faced with real, existing and palpable phenomenon3: sometimes via imagination, the anticipation of a situation or its outcome4: because of the similarity with a formerly experienced stressful situation
	The correct statement(s) is (are):
	3,2
	2, 3
	1,2,4
688.	3,425 040 03 06 02 Stress
	Cognitive evaluation which leads to stress is based on:
	the evaluation of the situation and the evaluation of capabilities to cope with it
	the evaluation of the situation and the the state of fatigue of the individual
	the evaluation of the capabilities of the individual and the time available
	the capabilities of the individual and the solutions provided by the environment

689.	3,426 040 03 06 02 Stress
	Which of the following physical stimuli may cause stress reactions?
	-1 : noise2 : interpersonnal conflict.
	-3 : temperature.
	-4 : administrative problem. -5 : hunger.
	The combination of correct statements is:
\boxtimes	1,3,5
	1,3,4
	3,4,5
	2,3,5
690.	3,427 040 03 06 02 Stress
	Which of the following statements concerning stress is correct?
	Stress will be evaluated differently depending on whether it improves or reduces performance.
	Stress always creates a state of high tension which decreases cognitive and behavioural performance.
	Stress is evaluated as a positiv mechanism only in connection with precise tasks of the kind encountered in aeronautics
	Stress is a necessary way of demonstrating one's own work.
691.	3,428 040 03 06 02 Stress
	Acute stress quickly leads to
	the mobilization of resources required to cope with the stressor
	a decrease in the amount of resources mobilized to face the situation
	a permanent state of incapacitation
	a state of overactivation beyond the control of willpower
692.	3,430 040 03 06 02 Stress
	The resistance phase of stress reaction is characterized by:
2	2 : testosterone secretion which enables fats to be converted into
30	sügar. -3 : a sudden fall in stress resistance.
R	-4: the appearance of psychosomatic disorders when lasting over
	a prolonged time. The combination of correct statements is:
	1 and 4 are correct
	1,2 and 3 are correct
	2, 3 and 4 are correct
	3 and 4 are correct

693.	3,431 040 03 06 02 Stress
	Stress may be defined as:
	a normal phenomenon which enables an individual to adapt to encountered situations
	a poorly controlled emotion which leads to a reduction in capabilities
	a psychological phenomenon which only affects fragile personalities
	a human reaction which one must manage to eliminate
694.	3,432 040 03 06 02 Stress
	What is a stressor?
	An external or internal stimulus which is interpreted by an individual as beeing stressful
	All external stimulation are stressors since they modify the internal equilibrium
	A psychological problem developed in a situation of danger
	The adaptation response of the individual to his environment
695.	3,433 040 03 06 02 Stress
	What triggers stress in humans?
	The subjective interpretation an individual gives to a situation experienced
	Objective stimulation from the environment regards of subjective perceptions
	Only strong excitations of the sensory organs: a flash of light, noise, the smell of smoke
	Always the awareness of an emotion and a physiological activation (e. g. rapide heart rate)
696.	3,552 040 03 06 02 Stress
	In relation to the word stress as it affects human beings, which of the following responses is correct?
	'Stress'is a term used to describe how a person reacts to demands placed upon him/her.
	All forms of stress should be avoided.
	Reactive stressors relate purely to a pilot's physical condition.
	Self-imposed obligations will not create stress.
697.	4,136 040 03 06 02 Stress
	Pilot stress reactions :
	differ from pilot to pilot, depending on how a person manages the particular stressors
	seem to be always the same for most pilots
	are related to an internationally recognized list of stressors where the top-ten items should be avoided by all means
	do not change with the environment or different situations but mainly with the characters themselves

698.	4,156 040 03 06 02 Stress
	Fixation or tunnel vision is primarily to be expected when :
	stress is high
	stress is medium
	stress and motivation are medium
	stress and motivation are low
699.	5,639 040 03 06 02 Stress
	Which of the following statements in regard to motivation is correct?
	Extremely high motivation in combination with excessive stress will limit attention management capabilities
	Too much motivation may result in hypovigilance and thus in a decrease in attention
	Motivation will reduce the task automation process
	Low motivation will guarantee adequate attention management capabilities
700.	5,642 040 03 06 02 Stress
	What are the effects of distress (overstress) ?
	It increases vigilance for a longer period than stress itself, but may focus attention
	It reduces vigilance and focusses attention
	It activates resources stored in memory
	It has very little immediate effect on vigilance and attention
701.	5,737 040 03 06 02 Stress
	The maintenance of man's internal equilibrium is called :
	Homeostasis
	Heterostasis
	Homeothermy
	Poikilothermy
702.	6,857 040 03 06 02 Stress
	Workload essentially depends on:
	the current situation, the pilot's expertise and the ergonomics of the system
	the pilot's experience and the ergonomics of the system
	the pilot's knowledge
	the task and the day's parameters (weather report, aircraft load, type of flight, etc)

703.	6,862 040 03 06 02 Stress
	Stress is above all :
	the best adaptation phenomenon that man possesses for responding to the various situation which he may have to face
	a psychosomatic disease that one can learn to control
	a response by man to his problems, which automatically leads to a reduction in his performance
	a phenomenon which is specific to modern man
704.	6,863 040 03 06 02 Stress
	Experiencing stress depends on:
	the individual interpretation of the situation
	the fragility of individuals to certain types of stimulation
	the individual's state of tiredness
	the environment of the situation which the individual will live through or is in the process of living through
705.	6,864 040 03 06 02 Stress
	Stress is a reaction to adapt a specific situation. This reaction
	may include various psychological and physiological elements which one can learn to manage
	is always linked to excessive fear
	can only be controlled by medical treatment
	is purely physiological and automatic
706.	6,867 040 03 06 02 Stress
	The individual's perception of stress depends on:
	the subjectiv evaluation of the situation and one's abilities to cope with it
	the objectiv evaluation of the situation and one's abilities to cope with it
	the pilot's increasing level of arousal
	the conditions of the current situation only
707.	6,868 040 03 06 02 Stress
	Stress is a response which is prompted by the occurence of various stressors. Of these, which can be called physiological ?
	Noise, temperature (low or high), humidity, sleep deprivation
	Noise, hunger, conflicts, a death
	Heat, humidity, fatique, administrative problems
	Temperature hunger thirst divorce

General Adaptation Syndrome is characterised by the following phases: -1: alarm -2: alert phase -3: resistance phase -4: exhaustion phase -5: vigilance phase 1,3,4 2,3,4 1,2,4,5 2,3,4,5 709. 8,422 040 03 06 02 Stress A stress reaction is: the non-specific response of the body to every demand placed on a person the specific response of the body to every demand placed on a person the non-specific stimuli causing a human body to respond the specific stimuli causing a human body to respond	
2,3,4 1,2,4,5 2,3,4,5 709. 8,422 040 03 06 02 Stress A stress reaction is: the non-specific response of the body to every demand placed on a person the specific response of the body to every demand placed on a person the non-specific stimuli causing a human body to respond	
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the non-specific stimuli causing a human body to respond	
the specific stimuli causing a human body to respond	
710. 8,423 040 03 06 02 Stress	
A person being exposed to extreme or prolonged stress factors can perceid distress (stress reactions) coping stress eustress	ve:
stressors	
711. 8,424 040 03 06 02 Sitess Getting uneasy will effect: 1. attention 2. concentration 3. memory 4 prudence 1. 2, 3 and 4 are correct	
and 2 are correct	
AI N TI ANU Z AIC CONCOL	
1 and 3 are correct	

712.	8,425 040 03 06 02 Stress
	The biological reaction to stress is identical regardless of the cause of stress. This mechanism occurs in three phases and is referred to, by Selye, as the "General Adaptation Syndrome". The sequence is:
	alarm phase - resistance phase - exhaustion phase
	alarm phase - denial phase - exhaustion phase
	exhaustion phase - resistance phase - adaptation phase
	resistance phase - exhaustion phase - recovery phase
713.	8,426 040 03 06 02 Stress
	According to the different phases of the "General Adaptation Syndrom" check the
	following statements: 1. During the alarm phase stress hormones (i.e. adrenalin) will cause a massiv release of glucose into the blood, an acceleration of pulse and blood pressure as well as an increase in the rate and depth of breathing
	 During the resistance phase the parasympathetic system uses a different type of hormone (cortisol) assisting to convert fat into sugar thus providing sufficient energy supply to the brain and body cells for sustained operation. During the exhaustion phase the body has to be given time to eliminate the waste products which have been generated excessively during the two preceding phases,
	1,2 and 3 are correct
	1 and 2 are correct, 3 is false
	only 1 is correct
	2 and 3 are correct, 1 is false
714.	8,428 040 03 06 02 Stress
	 Adaptation is a new state of equilibrium after having coped with a stressful situation. An individual's prospect of the situation and his/her abilities to cope with it will determine the type and strength of stress.
	1 and 2 are both correct
	1 is correct, 2 is false
	1 is felse, 2 is correct
	1 and 2 are both false

715.	8,429 040 03 06 02 Stress
	Learning to fly naturally induces stress in a student pilot because he is lacking experience. Manifestations of this type of stress are: 1. nervousness and chanellized attention 2. being rough at the controls 3. smoke and drink much more alcohol than usual
	4. airsickness, lack of sleep
	1 and 2 are correct, 3 and 4 are false
	1 and 2 are false, 3 and 4 are correct,
	1, 2 and 3 are correct, 4 is false
	1, 2 and 4 are correct, 3 is false
716.	8,430 040 03 06 02 Stress
	The level at which a pilot will experience a situation as stressful
	depends on the individual's perception of available abilities in comparison to the situational demands
	does not depend on his capacity to absorb information
	depends on the level of demand but not on individual interpretation of the situational demands
	depends on self-confidence alone
717.	8,433 040 03 06 02 Stress
	Please check the following statements 1. Psychosomatic means that mental and/or emotional stressors can be manifested in organic stress reactions. 2. Psychosomatic means that a physical problem is always followed by psychological stress.
	1 is correct, 2 is false
	1 and 2 are both correct
	1 is false, 2 is correct
	1 and 2 are both false
718.	8,434 040 03 06 02 Stress
	Psychosomatic means that a physiological problem is followed by psychological stress. Psychosomatic complaints hardly occur in professional aviation because of the strict selection for this particular profession.
	1 and 2 are both not correct
	1 and 2 are both correct
	1 is correct 2 is not correct
	1 is not correct 2 is correct

719.	2,696 040 03 06 03 Fatigue
	A fatigued pilot
	will show signs of increased irritability
	is acting similar as when encountering a state of depression
	will get precordial pain
	considerably increases the ability to concentrate
720.	5,657 040 03 06 03 Fatigue
	What is the effect of tiredness on attention ?
\boxtimes	It reduces the ability to manage multiple matters
	It increases the ability to manage multiple matters
	It leads to one's attention being dispersed between different centres of interest
	It has no specific effects on attention
721.	5,658 040 03 06 03 Fatigue
	Which of the following statements concerning tiredness is correct?
	Tiredness is a subjective sensation which is reflected in hypovigilance or in poor management of intellectual capabilities
	Tiredness is always the result of an intellectual overload
	Tiredness is the consequence of a diramition of performance
	Tiredness is an objective psychophysiological symptom of a reduction in attention capabilities
722.	422 040 03 06 04 Body rhythm and sieep
	Flying from Frankfurt to Moscow you will have a lay-over of 4 days. What time measure is relevant for your circadian rhythm on the 3. day?
\boxtimes	LT (local time).
	MEZ (middle european time).
	ZT (zonal time).
	UTC (universal time coordinated).
723.	465 040 03 06 04 Body rhythm and sleep
	in order to completely resynchronise with local time after zone crossing, circadian rhythms require
\boxtimes	less time when flying from east to west
	more time when flying from east to west
	about one day per 2.5 hours of time shift
	about one week per 2.5 hours of time shift

724.	2,693 040 03 06 04 Body rhythm and sleep
	The readjustment of the biological rhythms after a time shift is normally more difficult
	with flights towards the East
	with flights towards the West
	with flights towards the North
	with flights towards the South
725.	2,694 040 03 06 04 Body rhythm and sleep
	During paradoxical sleep
	rapid eye movements can be observed
	the tone of the muscles is similar to that in the waking state
	respiration is very regular
	the rhythm of the heart is very regular
726.	2,756 040 03 06 04 Body rhythm and sleep
	The physiological rhythms of a pilot in a new time zone will resynchronise to this new time zone at a rate of about
	1 - 1.5 hours a day
	2 - 2.5 hours a day
	3 - 3.5 hours a day
	4 - 4.5 hours a day
727.	2,757 040 03 06 04 Body rhythm and sleep
	The duration of a period of sleep is governed primarily by
\boxtimes	the point within your circadian rhythm at which you try to sleep
	the duration of your previous sleep
	the amount of time you have been awake
	the number of points you have in your 'credit/deficit' system
728.	5,652 040 03 06 04 Body rhythm and sleep
	Of the following statements concerning the effects of circadian rhythms on performance we know that :
	Sensorimotor performance is better in the evening whereas intellectual performance is better in the morning
	Sensorimotor performance is better in the morning whereas intellectual performance is better in the evening
	Sensorimotor and intellectual performance are better in the morning and are sensitive to the duration of the sleep state
	Sensorimotor and intellectual performance are better in the evening and very sensitive to the duration of the waking period

729.	5,653 040 03 06 04 Body rhythm and sleep
	In order to minimize the effects of crossing more than 3-4 time zones with a layover more than 24 hrs, it is advisable to :
	 Adapt as quickly as possible to the rhythm of the arrival country Keep in swing with the rhythm of the departure country for as long as possible Maintain regular living patterns (waking ,sleeping alternation and regular meal pattern) Try to sleep as much as possible to overcome negative arousal effects
\boxtimes	2,3
	1,3
	2,4
	1,4
730.	5,654 040 03 06 04 Body rhythm and sleep
	Concerning circadian rhythm disruption (jet lag), the effects of adjustment to destination
	time: 1. are longer for western rather than eastern flights 2. are longer for eastern rather than western flights 3. vary little between individuals 4. may vary greatly between individuals
\boxtimes	2,4
	1,3
	1,4
	2,3
731.	5,655 040 03 06 04 Body rhythm and sleep
	What seem to be the main roles of deep sleep ?
\boxtimes	It essentially allows for physical recovery and the reconstitution of neuron energy reserves
	It is confined to physical recuperation associated with fatigue
	Its main role is associated with activities of memory activities and restoration of attention capabilities
	Via physical recovery, it is characterised by an alternation of dream phases and paradoxical phases
732.	5,656 040 03 06 04 Body rhythm and sleep
	What are the main effects of a lack of sleep loss on performance ?
	It increases fatigue, concentration and attention difficulties, the risk of sensory illusions and mood disorders
	It increases fatigue and concentration difficulties, but facilitates stress management by muscular relaxation,
	It causes muscular spasms
	It reduces concentration and fatigue only with sleep loss greater than 48 hours

733.	8,412 040 03 06 04 Body rhythm and sleep
	The human circadian rhythm is based on a cycle of about:
	24 hours
	1.5 hours
	12 hours
	48 hours
734.	8,413 040 03 06 04 Body rhythm and sleep
	Disturbance of the biological clock appears after a: 1. bad night's sleep 2. day flight Amsterdam - New York 3. day flight Amsterdam - Johannesburg 4. night flight New York - Amsterdam
\boxtimes	2 and 4 are correct
	1,2 and 3 are correct
	1 and 3 are correct
	1,2,3 and 4 are correct
735.	8,416 040 03 06 04 Body rhythm and sleep
	Sleeplessness or the disruption of sleeping patterns 1. can lead to symptoms of drowsiness irritability and lack of concentration 2. will make an individual more prone to make errors
\boxtimes	 can lead to symptoms of drowsiness, irritability and lack of concentration will make an individual more prone to make errors and 2 are both correct
	 can lead to symptoms of drowsiness, irritability and lack of concentration will make an individual more prone to make errors and 2 are both correct is not correct, 2 is correct
	 can lead to symptoms of drowsiness, irritability and lack of concentration will make an individual more prone to make errors and 2 are both correct is not correct, 2 is correct is correct, 2 is not correct
736.	 can lead to symptoms of drowsiness, irritability and lack of concentration will make an individual more prone to make errors and 2 are both correct is not correct, 2 is correct and 2 are both not correct
	 can lead to symptoms of drowsiness, irritability and lack of concentration will make an individual more prone to make errors and 2 are both correct is not correct, 2 is correct is correct, 2 is not correct
	1. can lead to symptoms of drowsiness, irritability and lack of concentration 2. will make an individual more prone to make errors 1 and 2 are both correct 1 is not correct, 2 is correct 1 is correct, 2 is not correct 1 and 2 are both not correct 8,418 040 03 06 04 Body rhythm and sleep Check the following statements: 1. A person experiencing sleep loss is unlikely to be aware of personal performance degradation 2. Performance loss may be present up to 20 minutes after awaking from a short sleep (nap)
	1. can lead to symptoms of drowsiness, irritability and lack of concentration 2. will make an individual more prone to make errors 1 and 2 are both correct 1 is not correct, 2 is correct 1 is correct, 2 is not correct 8,418 040 03 06 04 Body rhythm and sleep Check the following statements: 1. A person experiencing sleep loss is unlikely to be aware of personal performance degradation 2. Performance loss may be present up to 20 minutes after awaking from a short sleep (nap) 1 and 2 are both correct

737.	8,419 040 03 06 04 Body rhythm and sleep
	The sleep cycles repeat during the course of a night's sleep. 1. Each succeeding cycle contains a greater amount of REM- sleep.
	2. Frequent interruption of the REM-sleep can harm a human being in the long run.
	1 and 2 are both correct
	1 is correct 2 is not correct
	1 is not correct 2 is correct
	1 and 2 are both not correct
738.	8,421 040 03 06 04 Body rhythm and sleep
	 REM-sleep becomes shorter with any repeated sleep cycle during the night. REM-sleep is more important for the regeneration of mental and physical functions than all the other sleep stages are.
	1 is not correct 2 is correct
	1 and 2 are both correct
	1 is correct 2 is not correct
	1 and 2 are false
739.	460 040 03 06 05 Fatigue and stress management
	Stress management programmes usually involve:
	the prevention and/or the removal of stress only the removal of stress
	only the prevention of stress
	the use of psychoactive drugs
740.	512 040 03 06 05 Fatigue and stress management
740.	Using a checklist prior start is a contribution to
	safety, because the concentration on the check list items will draw the pilot's attention to flight related tasks, reducing distraction from personal stress
	stress, because time pressure prior take-off is always present
Ø	workload, because using checklists will increase the pilot's workload prior take-off
	frustration
741.	513 040 03 06 05 Fatigue and stress management
	The human performance is generally
	better when relaxed, independent of the period of day
	better very early in the morning
	above to be attential the convenient them in the convenient
	always better in the evening than in the morning

742.	5,725 040 03 06 05 Fatigue and stress management
	What are the main strategies for adapting to time constraints?
	The preparation of action and the prioritisation of tasks
	The preparation of action and time management
	The prioritisation of tasks and the application of procedures
	The preparation of action and the application of procedures
743.	8,427 040 03 06 05 Fatigue and stress management
	If coping with a stress situation is impossible, one will remain in the state of:
	distress
	adaptation
	hypoxia
	eustress
744.	5,624 040 03 07 00 Advanced cockpit automation
	The performance of the man machine system is above all :
	a combination which is based on decreasing the pilot's workload and increasing his time for supervision
	a balanced combination between someone actively engaged in his work and automated systems which serve to control the pilot's workload
	a combination which must make the pilot available for the sphere in which he is most qualified, namely checking departures from the normal operating range
	a combination in which the pilot must keep the main repetitive tasks and automated systems under his control in line with rule-based behaviour
745.	5,609 040 03 07 01 Advantages and disadvantages (criticalities)
	Which of the following operations are performed more effectively by people than by automatic systems? 1. Qualitative decision-making 2. Waiting for an infrequent phenomenon 3. Monitoring to ensure that certain values are not exceeded 4. Detections of unusual conditions (smell, noise, etc.)
	3,4
	2,3,4

746.	5,610 040 03 07 01 Advantages and disadvantages (criticalities)
	Which of the following operations are performed more effectively by automatic systems than by people ?
	 Waiting for an infrequent phenomenon Long term controlling of a set value (e.g holding of trajectory) Monitoring to ensure that certain values are not exceeded (e.g holding of flight path) Qualitative decision-making
	1,2,3
	2,4
	3,4
	2,3,4
747.	5,626 040 03 07 01 Advantages and disadvantages (criticalities)
	Which of the following drawbacks are associated with automation? 1. Reduced competence in manually controlling the aircraft 2. Increased likelihood of slips while programming automatic systems 3. Difficulties in adapting to the use of a sidestick 4. General decrease in technical reliability
	1,2
	1,4
	2,3,4
	1,3
748.	6,871 040 03 07 01 Advantages and disadvantages (criticalities)
	If man is compared with a computer, it can be said that man:
	has more effective means of action (output) and is above all capable of considerable synergy
	has less effective means of action (output) than the computer
	has less effective means of data collection than the computer
	is relatively limited compared with a computer, that means of data collection or means of action are referred to
749.	2 716 040 03 07 02 Automation complacency
	How can a pilot avoid automation complacency?
	Regard the automatic system as additional crew members that needs to be crosschecked as well
	Always try to enhance your aviation related knowledge during low workload periods
	Always fly the whole flight manually to remain in man-machine loop
	Nothing, because it is system-inherent

750.	2,724 040 03 07 02 Automation complacency
	A high degree of cockpit automation may alter the traditional tasks of the pilots in a way, that
	the attention of the cockpit crew will become reduced with the consequence of 'being out of the loop'
	it is guaranteed that the crew maqintains always situational awareness
	Crew Coordination can be neglected on long haul flights without compromizing safety
	the crew can pay more attention to solve the problem in an abnormal situation without monitoring the automatic systems
751.	4,140 040 03 07 02 Automation complacency
	One negative aspect of the highly automated cockpit results in :
	complacency among the crewmembers
	pilots disregarding the automatic equipment
	constantly high crew overload with regard to the monitoring tasks
	less experienced crews because of more transparent system details
752.	5,622 040 03 07 03 Working concepts
	As a result of automation in cockpits,
	communication and coordination call for an even greater effort on the part of the crew members
	man-man communication has been significantly improved
	coordination between the members is facilitated by the provision of more precise and more important information
	communication and coordination have clearly improved in man-man and man-machine relations