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- 1 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 inexperienced 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/she faces.
 - A 1 and 2 are correct, 3 is false
 - **B** 1, 2 and 3 are correct
 - C 1, 2, 3 and 4 are correct
 - **D** Only 1 is false
- 2 The total pressure of a mixture of gases is equal to the sum of the partial pressures of the gases in the mixture. This is:
 - A Graham's law
 - B Dalton's law
 - C Henry's law
 - D Boyle Mariotte's law
- 3 Dry air is a mixture of gases. Their volume percentage is about:
 - A 18% oxygen, 80% nitrogen, 2% other gases
 - **B** 19% oxygen, 80% nitrogen, 1% other gases
 - C 21% oxygen,78% nitrogen, 1% other gases
 - **D** 25% oxygen, 74% nitrogen, 1% other gases
- 4 Following a rapid decompression at 30.000 feet, the time of useful consciousness would be about:
 - A between 45 seconds and 1 minute 30 seconds
 - B 10 to 12 minutes
 - C 5 to 10 minutes
 - **D** 3 to 5 minutes
- **5** A pilot can prevent hypoxia by:
 - A using additional oxygen when flying above 10000 ft
 - **B** relying on the body's built in warning system recognizing any stage of hypoxia
 - **C** swallowing, yawing and applying the Valsalva method
 - **D** not exceeding a cabin pressure of 20 000 ft
- 6 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:
 - A 48 hours
 - B 12 hours
 - C 6 hours
 - D 24 hours

- 7 During hyperventilation:
 - A acidity level of the blood is reduced
 - B alkalinity level of the blood is reduced
 - C oxygen concentration of the blood is below normal
 - D nitrogen concentration of the blood is above normal
- 8 The rate and depth of breathing is primarily regulated by the concentration of:
 - A oxygen in the cells
 - **B** water vapour in the alveoli
 - **C** nitrogen in the air
 - D carbon dioxide in the blood
- 9 What is meant by presbycusis?
 - A Gradual onset of long-sightedness with age.
 - **B** Total loss of hearing in both ears due to disease.
 - C Total loss of hearing in one ear due to use of a headset in the cockpit.
 - **D** Gradual loss of hearing with age.
- 10 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 sources of light
 - **A** 2
 - **B** 2,3,4
 - **C** 1,2,4
 - **D** 1,3,4
- 11 Angular accelerations are perceived by:
 - A the semi circular canals
 - B the cochlea
 - C the otholiths
 - **D** the receptors in the skin and the joints
- **12** 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 aircraft
 - -2: Autokinetic illusion (fixed point viewed as moving)
 - -3: Illusions when estimating the size and distance of objects
 - -4: Illusions of rotation
 - **A** 1,4
 - **B** 2,3,4
 - **C** 2
 - **D** 3.4



- 13 During poor weather conditions a pilot should fly with reference to instruments because
 - A his attention will be distracted automatically under these conditions
 - **B** the danger of a "greying out" will make it impossible to determine the height above the terrain
 - **C** perception of distance and speed is difficult in an environment of low contrast
 - **D** pressure differences can cause the altimeter to give wrong information
- 14 On experiencing a vestibular illusion in straight and level flight, it is recommended that:
 - A you rely on your sensations only, as humans are much more reliable than flight instruments
 - **B** you close your eyes for a moment so that the oculo-vestibular conflict disappears
 - c you tilt your head to the side opposite to the turn to nullify the stimulus causing the illusion
 - **D** you avoid head movements and rely on your instruments
- 15 Among the symptoms of hypoglycaemia are:
 - A Headache and lack of concentration
 - **B** Double vision and puffiness around the eyes
 - C Severe eye and head aches
 - **D** Difficulty in focussing on near-by objects
- 16 To prevent gastro-intestinal problems in tropical climates you should:
 - 1. not eat salad or raw vegetables
 - 2. always peel fruit
 - 3. only eat food that has been properly cooked
 - 4. avoid ice-cream

Which of the following lists all the correct answers?

- **A** 1, 2, 3 and 4
- **B** 1 and 2
- **C** 1, 2 and 3
- **D** 2 and 4
- 17 Alcohol, when taken simultaneously with drugs, may
 - **A** intensify the effects of the drugs
 - **B** compensate for side effects of drugs
 - **C** show undesired effects only during night flights
 - **D** increase the rate of alcohol elimination from the blood

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- 18 The acquisition of a motor programme (skill) will mean that:
 - A the more behaviour is automated, the more it requires attention and the less it frees resources
 - **B** the less behaviour is automated, the less it requires attention and the more it frees resources
 - **C** the more behaviour is automated, the less it requires conscious attention and thus the more it frees mental resources
 - **D** the more behaviour is automated, the more it requires attention and the more it frees resources
- 19 The first stage in the information process is
 - A the recognition of information
 - **B** selective attention
 - **C** perception
 - D sensory stimulation
- 20 Working memory:
 - A is sensitive to interruptions which may erase all or some of its contents
 - **B** is unlimited in size
 - **C** is unlimited in duration
 - D varies considerably in size between an expert pilot and a novice pilot
- 21 Which of the following statements summarises the impact that motivation may have on attention?
 - A It increases alertness and attention
 - **B** It only facilitates attention in extreme cases (risk of death)
 - C Motivation has only a small effect on attention, but it facilitates alertness
 - **D** It stimulates attention but may lead to phases of low arousal
- **22** To resynchronize a circadian rhythm, it takes more time after:
 - A south-north flights
 - B north-south flights
 - C westbound flights
 - **D** eastbound flights
- 23 Stress management programmes usually involve:
 - A the prevention and/or the removal of stress
 - **B** only the removal of stress
 - **C** only the prevention of stress
 - **D** the use of psychoactive drugs

- 24 As a result of automation in cockpits,
 - A communication and coordination call for an even greater effort on the part of the crew members

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- B it is easier for the captain to monitor the work of the first officer and vice versa
- C the need for communication between crew members has been decreased
- D communication and coordination have clearly improved in man-man and man-machine relations

