



Passage One:

b. was found in 1947

d. is inactivated and concentrated

2- The vaccines injected are usually

- a. live viruses
- b. attenuated
- c. inactivated
- d. pulverized

3- In the production of influenza vaccines, we have to change the strains at most every year as these viruses

- a. escape haemagglutinin
- b. neutralize neuraminidase
- c. undergo a number of degenerations immediately
- d. remain hidden from the antibodies present in blood

4- Influenza vaccines which are made of live, attenuated viruses are usually administered.....

- a. intravenously
- b. intramuscularly
- c. as nasal drops
- d. by injection into air passages

Passage Two:

New progress has been made on the road to understanding the origins of genetic changes in tumor cells. The prevalent theory has been that genetic changes in tumor cells come about in multiple stages over a long time. However, a recent study by researchers at Lund University shows that this does not have to be the case at all, but that the cancer cells instead can be subject to several major chromosomal changes at the same time.

By filming cancer cells as they grow, the researchers discovered that tumor cells can undergo a special form of division that is not seen in healthy cells. "We have long known that changes in the genetic make-up of body cells play a part in the development of tumors. However, we don't know a lot about how the genetic changes in the tumor cells actually come about. Above all, it has been difficult to understand why many tumor cells contain extra copies of one or more chromosomes, despite the fact that this is the most common type of chromosome abnormality in cancer cells", says David Gisselsson Nord.

■ Passage Three:

Memory loss, also referred to as amnesia, is an abnormal degree of forgetfulness and/or inability to recall past events. Depending on the cause, memory loss may have either a sudden or gradual onset, and it may be permanent or temporary. Memory loss may be limited to the inability to recall recent events, events from the distant past, or a combination of both. Although the normal aging process can result in difficulty in learning and retaining new material, normal aging itself is not a cause of significant memory loss unless there is accompanying disease that is responsible for the memory loss.

Transient global amnesia is a rare, temporary, complete loss of all memory. It is a passing episode of short-term memory loss without other signs or symptoms of neurological impairment. In transient global amnesia (TGA), the individual does not lose consciousness but does lose the ability to form new lasting memories. The individual may be disoriented to place and time, may recognize that something is wrong, and may become distressed at **this realization**. In TGA, however, motor function is not affected. The average age of patients with TGA is 62 (range: 47- 80) and the mean duration of the episode is 5.7 hours, with a range of 20 minutes to 20 hours.

10- It is understood that amnesia

- a. contributes to neurological impairment
- b. can have different durations
- c. is a result of the aging process
- d. has one well-known etiology

11- Based on the text, the amnesiacs

- a. remember just current events
- b. forget only distant events
- c. can suffer from aging complications first
- d. may lose their memory without warning

12- The TGA sufferer may experience all of the following except

- | | |
|---------------------------|----------------------------------|
| a. distress and confusion | b. disorientation to environment |
| c. unforgettable memories | d. temporary forgetfulness |

13- The phrase “this realization” refers to the understanding that

- a. there is something wrong with him/her
- b. (s)he is suffering from mobility disorder
- c. (s)he is under extreme stress
- d. time/place disorientation is the real cause

14- The individual suffering from TGA

- a. will suffer amnesia in the long run
- b. can retain things in his/her mind temporarily
- c. ultimately recovers his/her memory
- d. immediately recalls what happens after the attack

Passage Four:

A stress response that fails to return to a state of equilibrium becomes unresolved psychological/emotional trauma. Emotional or psychological trauma is the extreme end of the stress disorder continuum. It is stress run amuck- a deregulation of the nervous system that remains fixed and contributes to lifelong mental, emotional and physical disorders including anxiety and depression. Emotional or psychotic trauma can result from such common occurrences as an auto accident, the breakup of a significant relationship, a humiliating or deeply disappointing experience, the discovery of a life-threatening illness or disabling condition, or other similar situations. Traumatizing events can take a serious emotional toll on those involved, even if the event did not cause physical damage.

The word trauma brings to mind the effects of such major events as war, kidnapping, abuse, or similar assaults. The emotional aftermath of such events, recognized by the medical and psychological communities, and increasingly by the general public, is known as Post- Traumatic Stress Disorder (PTSD). But traumatic stress has a broader definition than (PTSD) alone provides. Traumatic stress leads to lifelong chronic physical disabilities and emotional disorders such as anxiety and depression and can be caused by seemingly benign experiences in infancy or childhood. **This new field**, early life relational or developmental trauma, is less familiar to professionals, but offers a new approach to healing a wide range of lifelong mental, emotional and physical disorders.

15- In the first paragraph, the writer tries to

- a. name physical damages making people vulnerable to emotional tolls
- b. explain what mental trauma is
- c. distinguish emotional trauma from stress
- d. ignore the origins of psychological trauma

16- According to the writer, in case stress response remains unresolved for some time, it will lead to

- a. breakup of significant relationships in life
- b. disablement and threatening diseases
- c. unavoidable emotional or psychological trauma
- d. most likely humiliating experiences

17- Emotional tolls on those involved in traumatizing events

- a. can never return to a state of equilibrium
- b. can hardly ever be resolved
- c. have their roots in common events in life
- d. necessarily lead to physical and mental damages

18- As to traumatic and post-traumatic stress, the

- a. latter might have life-long effects as opposed to the former
- b. latter involves those occurrences having permanent effect during life
- c. former can encompass a smaller scope than the latter
- d. former can be rooted in childhood experiences while the latter might not

19- "This new field" in the last sentence of paragraph two refers to the field dealing with

- a. life trauma and the resulting psychological problems
- b. physical or psychological problems arising from PTSD
- c. relational problems
- d. depressive disorders

Passage Five:

Marcie Schneider and Holly Benjamin of American Academy of Pediatrics (AAP) in a review of both energy drinks, which include brand names such as Red Bull and Monster, and sports drinks, wrote that "Rigorous review and analysis of the literature reveal that caffeine and other stimulant substances contained in energy drinks have no place in the diet of children and adolescents".

“The authors said parents and physicians need to know more about the distinctions between energy drinks and sports drinks (sweet drinks, including Powerade and Gatorade, that contain electrolytes).

Benjamin, a pediatric sports medicine specialist at the University of Chicago, explained that athletes who exercise regularly at high intensity have a need to replenish electrolytes. "Sports drinks do have a place, but it's in a small population. Parents need to understand that, and so do doctors." Beyond that group of athletes, however, sports drinks can be one of many contributors to obesity in children.

“Basically, the biggest problem with obesity is that kids are taking too many calories in their diet and they’re not able to burn off all of those calories every day, and so they gain weight,” Benjamin said. “Kids are not just overeating, but they are drinking high-calorie beverages. “ Even milk and juice should be limited in favor of water.

20-AAP came to the conclusion that energy drinks are for teenagers.

- a. improper
b. desirable
c. fundamental
d. indispensable

21- What is said to contain a stimulant ingredient?

- a. Monster
b. Gatorade
c. electrolytes
d. sport drinks

22- The authorities believe that

- a. children should have sports drinks
- b. athletic children can take energy drinks
- c. some sports drinks should be banned for young athletes
- d. doctors should be educated on energy and sports drinks as-well

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- a. better child development
- b. child obesity in the USA
- c. athletic children in America
- d. children beyond the group of athletes

33- Many people turn to natural therapies because these are considered to have side effects.

- | | |
|---------------|----------------|
| a. formidable | b. detrimental |
| c. negligible | d. substantial |

34- With the increase in population and pollution, people are gradually becoming more various kinds of diseases.

- | | |
|-----------------|-----------------|
| a. resistant to | b. skeptical of |
| c. prone to | d. critical of |

35- Infirmary, muscle wasting, and anorexia all resulted from his diet.

- | | |
|-------------|---------------|
| a. meager | b. sufficient |
| c. colossal | d. nutritious |

36- You need to have more rest to your persistent headache.

- | | |
|--------------|--------------|
| a. boost | b. alleviate |
| c. aggravate | d. enhance |

37- Cigarette smoke contains various carcinogens and so most cases of often fatal diseases.

- | | |
|-----------------|-----------------|
| a. results from | b. accounts for |
| c. impedes | d. prohibits |

38- Although chemotherapy can a tumor, it usually destroys the normal functioning of vital organs as well.

- | | |
|--------------|-----------|
| a. aggravate | b. secure |
| c. amplify | d. shrink |

39- The WHO estimates that 400 million people worldwide suffer from some form of mental disorder or psychological

- | | |
|--------------|--------------------|
| a. infirmity | b. differentiation |
| c. vigor | d. recovery |

40- The elderly and people suffering from cardio-respiratory problems such as asthma appear to be the most groups to different ailments.

- | | |
|----------------|-------------|
| a. susceptible | b. futile |
| c. affluent | d. virulent |