

1. Although mitochondrial disorders may be caused by distinctly different damage to the mitochondrial genetic material, ----.

- A) physicians take a multi-faceted approach to diagnosing such disorders due to their complex nature
- B) extensive tests need to be performed to diagnose a mitochondrial disorder and eliminate other diseases
- C) they all share a common feature: the ability of mitochondria to generate energy is damaged
- D) they are a diverse group of diseases caused by damage to mitochondria structures
- E) more than 90 per cent of the energy needed by the human body is generated by mitochondria

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2. Although it is impossible for individuals to alter their genetic makeup, ----.

- A) scientists continue to identify more variables that cause cardiovascular disease
- B) international trends suggest that environmental factors play a key role in rates of cardiovascular disease
- C) resources are needed to help identify more risk factors for cardiovascular disease
- D) those in developing countries are more likely to be exposed to the types of infections that can lead to heart disease
- E) lifestyles can be changed in order to reduce the risk of developing cardiovascular disease

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3. Despite significant advances in cancer treatments for humans over the last few decades, ----.

- A) high concentrations of the cancer-killing drugs are developed
- B) animals show significant improvements after cancer treatment
- C) effective therapies for animals remain few and far between
- D) researchers are developing a promising stem cell treatment for animals
- E) a number of therapies can extend the lives of animals with terminal cancer

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4. ----; however, people can prevent symptoms by managing the condition with a suitable diet and lactase supplements.

- A) Parents may self-diagnose lactose intolerance in their child by using an elimination diet
- B) Those who suffer with lactose intolerance are able to continue eating some milk products
- C) Parents must guard the health of a child who is lactose intolerant by managing their diet
- D) Often lactose intolerance is a natural occurrence that cannot be avoided
- E) Health experts believe lactose intolerance is easy to manage and not dangerous

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5. Because there is a lack of long-term data on the subject, ----.

- A) social media sites make money from advertising which has attracted many children
- B) more screen time is associated with a higher risk of myopia in young children
- C) it has been found that the overuse of screens has been associated with several harms in recent years
- D) the question about the adverse impacts of screen time on young children is surprisingly difficult to answer
- E) it has been shown that only a quarter of children under the age of two in many countries have no screen time

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6. Although there is still some way to go before mental health conditions are viewed in the same way as physical ones, ----.

A) these days, more people are open about their mental health issues, and this may encourage others to seek help when they need it

B) controversy has surrounded the most popular class of antidepressants ever since their development in the 1990s

C) the once widely accepted explanation for how some antidepressants work is no longer thought to be correct

D) it is clear that mental health conditions are complicated, and that developing better treatments is going to be more complicated, too

E) researchers are developing tests that would tell people what kind of depression they have and what treatment is most likely to benefit them

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7. In Chinese medicine, no two illnesses are ever the same ----.

- A) in case disease is seen as imbalances in the organ system
- B) unless the Chinese system uses elements to describe and treat conditions
- C) as if the goal of any remedy is to assist the body in re-establishing its innate harmony
- D) even if disease can be caused by external factors like the environment and weather
- E) as each body has its own characteristic symptoms and balance

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8. The signs and symptoms of Down syndrome have been observed and reported for many centuries, ----.

A) so people without Down syndrome who develop very early onset Alzheimer's also seem to have abnormalities to the twenty-first chromosome pair

B) but they were not accurately described as making up a distinct syndrome until the English physician J. Langdon Down did so

C) though it is the most common chromosome disorder and genetic cause of mental retardation

D) yet the risk of having a baby with Down syndrome increases significantly as a woman's age increases

E) thus other anomalies associated with the disorder are bowel defects, congenital heart disease, and chronic respiratory infections

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9. Albinism is an inherited problem caused by a flaw in one or more of the genes that are responsible for directing the eyes and skin to make the pigment melanin; ----.

A) for example, one of the greatest health hazards for people with albinism is excessive exposure to sun

B) as a result, little or no pigment is made, and the child's skin, eyes, and hair may be colourless

C) on the contrary, there are many different types of albinism, involving a number of different genes

D) in other words, it is not always easy to diagnose the exact type of albinism a person has

E) either way, genetic counselling is very important to prevent further occurrences of the condition

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10. Asthma patients should carry their medications with them at all times ----.

- A) given that long-term use of these drugs can cause serious side effects
- B) so that they have them handy when they feel an attack coming on
- C) while anti-inflammatory medications are used for those with moderate to severe asthma
- D) until steroids may take a few hours or even days to work
- E) though these drugs relieve symptoms of coughing, chest tightness and shortness of breath

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11. Temporal arthritis almost always occurs in people over 50; ----.

- A) however, about 20% of people over the age of 50 suffer from it
- B) moreover, it becomes expectedly more common as people age
- C) on the contrary, women are affected twice as often as men
- D) similarly, some doctors say that it is more common among Caucasians
- E) hence, that term literally means inflammation of the temporal arteries

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12. Although mathematics provides the foundations on which artificial intelligence (AI) systems are built, ----.

- A) AI systems might be able to generalise their mathematics abilities with thorough prompts
- B) they are beginning to pull off some remarkable mathematical feats, matching humans
- C) some have been sceptical that AI could ever construct tricky mathematical proofs
- D) these systems can replicate human-like reasoning and show signs of creativity
- E) they are regarded as the most important revolution in the contemporary world of technology

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13. ----, but it had everything in it for one to survive and was an engineering masterpiece at the time.

- A) The cone-shaped Mercury space capsule had a series of parachutes and vital supplies
- B) The Mercury space capsule was only big enough to fit a single person inside
- C) The Mercury space capsule would accommodate astronauts on their journey
- D) The Mercury space capsule had to be designed before NASA could send anyone to space
- E) Planning for the design of the Mercury space capsule began in the late 1950s

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14. Even though the techniques of the 19th century provide an adequate model to assess the periodic tides and tidal currents, ----.

- A) movements of water caused by the gravitational forces of the Moon and the Sun acting on the Earth make up the tide
- B) the shape of tides not only changes due to friction, but in direct response to the changing tidal forces
- C) there are many exciting new strategies to predict tides using information derived from images such as waterlines
- D) tidal records form the basis to study important scientific issues such as sea level rise
- E) many marine scientists attempt to account for many constituents in a long time series of water levels or currents

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15. Dirigibles, aircrafts that contain gas helping them float, cannot climb above storms like jet-propelled airplanes can ----.

- A) whereas the engine produced three horsepower at most
- B) unless they are specially designed with high altitude conditions in mind
- C) so that they could be less vulnerable than airplanes to icing in the cold
- D) even though their great size causes them to be significantly slower than other aircrafts
- E) given that they have potential for certain markets because they can run quietly and smoothly

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16. While large language models, which generate text to mimic human speech and writing, may be human-like, ----.

- A) the arrival of these human-sounding models started a race to teach them how to effectively manipulate tools
- B) they have been trained with so much information that they can answer almost any question without any sign of superficiality
- C) they draw their information from billions of words about how humans do or say things, giving them authenticity
- D) they are considered far from being skilled like humans and can fail to fully appreciate the implications of a request
- E) some developers are attempting to create models that generate not just language but images and sounds as well

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17. If the metabolizable energy of the food is insufficient to meet the demand of the body, ----.

- A) conservation of energy necessitates that food energy intake is balanced by energy lost
- B) energy retention can be negative and the body consumes its own energy reserves
- C) the digestible energy consists of nutrients that are absorbed from the gut
- D) there is the basal energy requirement for maintenance of vital functions
- E) excess food intake leads to the deposition of body fat that retains in the body

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18. Isaac Newton's law of gravity states that weight will decrease as the distance between the object and the ground increases, ----.

- A) so that objects at high altitudes will weigh less than they do at sea level
- B) even if the loss of weight is real and easily measured with modern instruments
- C) just as weight never disappears completely because gravity extends infinitely
- D) as the huge mass of earth causes gravity to be the dominant force in everyday life
- E) although balances and scales are used to determine mass by measuring weight

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19. Today, anyone with the slightest acquaintance with anatomy knows that blood passes from the heart to the lungs and back before making its trip through the body, ----.

A) but this was far from obvious to early physicians and scientists

B) as it seemed clear that blood was pumped through the body by the heart

C) so Chinese physicians believed that blood circulates throughout the body

D) although some writers guessed the circulation of the blood in the 16th century

E) because no one knew how blood could travel from the arteries to the veins in 1628

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20. Dinosaurs have gone extinct long before humans; ----.

- A) however, they are rather difficult to define as a zoological group
- B) in brief, the dinosaurs were among the most successful large animals ever to live
- C) therefore, evidence about the existence and nature of them is entirely indirect
- D) similarly, it is not known exactly what caused the last dinosaurs to become extinct
- E) furthermore, some dinosaur species bear clear resemblances to each other

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21. The distinction between hills and mountains is decided entirely by the people that live near them; ----.

- A) however, individual mountains rarely last very long in the powerfully erosive atmosphere of the Earth
- B) thus, distinguishing mountains from smaller topographic features is partly a matter of perception
- C) on the other hand, mountains, like every other thing in the natural world, go through a life cycle
- D) for example, most of the mountain ranges in the planet's history rose and wore away at different times
- E) still, throughout their almost four-billion-year history, the continents have been criss-crossed by many immense ranges of mountains

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22. The accepted wisdom was once that the complexity of a modern fighter aircraft's avionics systems made it impossible for a pilot to fly alone, ----.

A) but improvements in cockpit design and the use of computers have greatly reduced the workload

B) yet no amount of newly-developed technology can fully protect a pilot from the stress of g-force (the force caused by gravity)

C) so the new generation of jet fighter was a response to the demand for a cheaper aircraft

D) though it is an established fact that the more unstable an aircraft is the more agile it will be

E) otherwise designers and pilots had to choose between stability and manoeuvrability throughout aviation history

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