|  |  |
| --- | --- |
| **SỞ GD & ĐT CAO BẰNG**  **TRƯỜNG THPT CHUYÊN**  **-------------------------** | **ĐỀ XUẤT ĐỀ THI HỌC SINH GIỎI**  **KHU VỰC DUYÊN HẢI – ĐBBB NĂM 2023**  **Môn: Tiếng Anh – Lớp 10** |

**A. LISTENING (50 points)**

**Part 1: Complete the table below. Write NO MORE THAN THREE WORDS for each answer. Write your answers in the corresponding numbered boxes. (10 points)**

|  |  |  |
| --- | --- | --- |
| **Date** | **Event** | **Importance for art** |
| 3000 BC | rice farmers from 1. \_\_\_\_\_\_\_\_ | built temples with wood and stone carvings settled in Bali |
| 14th century | introduction of Hinduism | artists employed by 2. \_\_\_\_\_\_\_\_ and focused on epic narratives |
| 1906 | Dutch East Indies Company established | art became expression of opposition to 3. \_\_\_\_\_\_\_\_ |
| 1920s | beginning of 4. \_\_\_\_\_\_\_\_ | encouraged use of new materials, techniques and subjects |
| 1945 | independence | new art with scene of 5. \_\_\_\_\_\_\_\_\_ (e.g. harvests) reflecting national identity |

***Your answers:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | 2. | 3. | 4. | 5. |

**Part 2. You will hear part of a discussion between Velm and Andrews, a lawyer, and Sergeant William Bailey, a police officer. For questions 1-5, choose the answer (A, B, C, or D) which fits best according to what you hear. (10 points)**

1. How did William feel the first time he gave evidence in court?

A. humiliated B.nervous C. furious D. indifferent

2. Velm suggests that police officers giving evidence should ……….

A. study the evidence more carefully.

B. ignore the lawyer for the defense.

C. not take comments personally.

D. demonstrate that they are honest and reliable.

3. Velma compares a police officer's evidence to a piece in a jigsaw puzzle because ……….

A. it is unimportant unless it is part of a bigger picture.

B. it may not fit in with the rest of the evidence.

C. the defense lawyer will try to destroy it.

D the police officer should only talk about his or her evidence.

4. William suggests that lawyers ………….

A adopt a special manner in the courtroom.

B. can be detached from a case.

C. might actually be close friends.

D. do not take their work seriously.

5. William's main concern is that

A. a criminal could get away with his or her crime.

B. a court case could be confusing,

C. young police officers find courts terrifying.

D. police officers might argue with the lawyer.

**Your answers:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | 2. | 3. | 4. | 5. |

**Part 3: You will hear two students, Bella and Tom, discussing an article they have read about a woman astronaut. For questions 1-5, decide whether the following statements are True (T) or False (F). (10 points)**

1. The speakers agree that being an astronaut is an unexpected job for women.

2. Bella particularly admires the astronaut Ellen Ochoa because of her determination to fulfill a childhood dream.

3. Tom was surprised to learn that people who want to become astronauts should have experience as airplane pilots.

4. Bella thinks the most interesting part of Ellen’s life is coping with unexpected problems.

5. Tom and Bella both now decide to go to some talks on space travel in films and literature.

***Your answers:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | 2. | 3. | 4. | 5. |

**Part 4: For questions 1-10, listen to a piece of news from BBC about “What to wear?” and supply the blanks with the missing information. Write NO MORE THAN THREE WORDS and/or A NUMBER taken from the recording for each answer in the spaces provided. (20 points)**

One of the biggest shocks, when you arrive in a new country, can be the clothes people are wearing. You may look fashionable at home, but you suddenly find you are **1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**or simply someone to laugh at when you arrive abroad. With this in mind, let's take a look at teenage fashion in the UK for girls.

One of the things that may shock an outsider most is **piercings**. These days it is not enough to simply wear rings in your ears. You will see many teenagers with rings on their navel, belly button, nose, lip, or even their eyebrows.

Some girls go for a '**glam**' look. They wear T-shirts; trousers are usually preferred, blue or black, and the look is **2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** with metallic bags and shoes and arms full of bracelets. Another alternative is the 3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ You start with a T-shirt of your favorite band and tight jeans or a long skirt. On top of this, you can wear a **denim** jacket. Jewellery tends to be large and metallic and to add color, wear a **scarf.**

If neither of these is for you, why not 4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_? T-shirts are usually **tie-dyed** in hot colors. Wear long shorts, short jeans or a **denim** skirt. And on your feet? 5\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, of course! If you prefer something more feminine, there's the 6\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Skirts are long, to the floor. Wear a top with butterflies or flowers printed on it!

Finally, how about the 'Tom Boy' look? Wear **7\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** and a T-shirt with a logo. Don't forget your **8\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** of course!

Follow the fashion tips above, and you shouldn't 9\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_However, it's important to remember to wear clothes and choose a look that you feel comfortable with. Don't just be 10\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- be yourself!

**Your answers:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | 2. | 3. | 4. | 5. |
| 6. | 7. | 8. | 9. | 10. |

**B. LEXICO-GRAMMAR (40 points)**

**Part 1: *For questions 1 - 20, choose the correct answer (A, B, C, or D) to each of the following questions and write your answers in the corresponding numbered boxes. (20 points)***

1. In \_\_\_\_\_\_\_\_\_\_\_\_, with the benefits of hindsight, it is clear that this was a bad decision.

A. reflection B. retrospect C. status quo D. a second thought

2. Little did I imagine The Amazing Race would entail a long-winded journey and ups and downs \_\_\_\_.

A. aplenty B. inexhaustibly

C. profusely D. superabundant

3. None of his relatives really understood the full \_\_\_\_\_\_\_\_\_\_\_\_ of his difficulty or his desperation.

A. degree B. dimension C. extent D. width

4. It’s quite unreasonable to ask me to organize the conference at such short \_\_\_\_\_\_\_\_\_\_\_\_.

A. warning B. notice C. time D. advance

5. I slept badly last night and am feeling particularly \_\_\_\_\_\_\_\_\_\_\_\_this morning.

A. slow-witted B. far-reaching C. off-hand D. top-heavy

6. A few tears were \_\_\_\_\_\_\_\_\_\_\_\_\_ by both parents when Maria finally left home.

A. flowed B. poured C. shed D. streamed

|  |  |  |  |
| --- | --- | --- | --- |
| 7. John did nine hours’ \_\_\_\_ studying a day for his exam. | | | |
| A. strong | B. solid | C. heavy | D. big |
| 8. I suppose I\_\_\_\_ lent the book to Simon, but I’m almost sure I didn’t. | | | |
| A. might | B. could | C. might have | D. must have |
| 9. People were injured by \_\_\_\_ stones the size of tennis balls. | | | |
| A. sleet | B. gale | C. hail | D. snow |
| 10. The police \_\_\_\_ off the street when the bomb had gone off. | | | |
| A. cordoned | B. battened | C. fastened | D. shuttered |

11. Roger Williams was a clergyman, \_\_\_\_\_\_ the colony of Rhode Island, and an outspoken advocate of religious and political freedom.

A. founded B. the founder of C. was the founder of D. the founded

12. \_\_\_\_\_\_ at home requires only three types of chemicals, several pieces of simple equipment, and running water.

A. For the development of film B. To develop film

C. When film is developed D. In developing film

13. The bark of a tree thickens \_\_\_\_\_\_.

A. with age B. it gets older C. as older D. by age

14. Widely reproduced in magazines and books, \_\_\_\_\_\_.

A. Ansel Adams depicted the Western wilderness in his photographs.

B. the Western wilderness was depicted in the photographs of Ansel Adams.

C. Ansel Adams’ photographs depicted the Western wilderness.

D. it was through his photographs that Ansel Adams depicted the Western wilderness.

15. This new glue is very useful for small repairs as it \_\_\_\_\_\_ very rapidly.

A. thickens B. stiffens C. sets D. fixes

16. Advertisers often aim their campaigns at young people as they have considerable spending \_\_\_\_\_\_.

A. power B. force C. energy D. ability

17. We’ve bought some \_\_\_\_\_\_ chairs for the garden so that they are easy to store away.

A. adapting B. adjusting C. bending D. folding

18. Alan’s photo was slightly too large for the frame so he decided to \_\_\_\_\_\_ it.

A. hack B. chop C. slice D. trim

19. Although the patient received intensive treatment, there was no \_\_\_\_\_\_ improvement in her condition.

A. decipherable B. legible C. discernible D. intelligible

20. The painting was a valuable family possession, which had been \_\_\_\_\_\_\_\_\_\_\_ from generation to generation.

A. handed over B. handed down C. handed across D. handed out

**Your answers:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | 2. | 3. | 4. | 5. |
| 6. | 7. | 8. | 9. | 10. |
| 11. | 12. | 13. | 14. | 15. |
| 16. | 17. | 18. | 19. | 20. |

**Part 2: Write the correct form of each bracketed word in corresponding numbered boxes. (10 points)**

1. A UN force has been sent in to try and \_\_\_\_\_\_\_\_\_\_\_ the area worst affected by the civil war. **(PEACE)**

2. During puberty, my children showed increasing signs of mental \_\_\_\_\_\_\_\_, which raised lots of concern for their parents. **(STABLE)**

3. In fact, those who practice meditation with any*\_\_\_\_\_\_\_\_* see their doctors less and spend, on average, seventy percent fewer days in the hospital. **(REGULAR)**

4. There’s been yet another\_\_\_\_\_\_\_\_\_\_\_\_ of cholera in Delhi. **(BREAK)**

5. Sarah stood there completely \_\_\_\_\_\_\_\_, so I had no idea at all what she was thinking. **(EXPRESS)**

6. The upper layers of Earth’s oceans have cooled *\_\_\_\_\_\_\_\_* over the past two years, even though the planet as a whole is warming up. **(SIGNIFY)**

7. This soft drink has a very fruity flavor to it and a\_\_\_\_\_after-taste. I really like it. **(PLEASE)**

8. \_\_\_\_\_\_\_\_ as it may seem, mammoths were alive only five thousand years ago. **(CREDIT)**

Top of Form

Bottom of Form

9. The judge was forced to acquit, saying the evidence was wholly\_\_\_\_\_\_\_\_\_. **(CONCLUDE)**

10. Can you think of one\_\_\_\_\_\_ reason why I should give you your job back? (**SOLITUDE)**

**Your answers:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | 2. | 3. | 4. | 5. |
| 6. | 7. | 8. | 9. | 10. |

**Part 3: Fill in the blank with a suitable preposition or a particle to complete the following sentences. (10 points)**

1. Text messaging caught\_\_\_\_\_ because kids wanted to pass notes to each other during class.

2. It is true that she plans to give \_\_\_\_\_ her prize money to charity.

3. If you act \_\_\_\_\_impulse, you risk making mistakes.

4. Don’t let one spoilt meal put you \_\_\_\_\_ cooking forever!

5. I got the job \_\_\_\_\_\_\_ the strength of your recommendation.

6. You must be weak \_\_\_\_\_\_\_ the head if you believe that.

7. Prospects of success in the talks were put \_\_\_\_\_\_\_ zero.

8. His appearance was the subject \_\_\_\_\_\_\_ some critical comments.

9. She went \_\_\_\_\_\_\_ the roof when I told her I’d crashed her car.

10. The government’s decision is a real kick \_\_\_\_\_\_\_ the teeth for the unions.

**Your answers:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | 2. | 3. | 4. | 5. |
| 6. | 7. | 8. | 9. | 10. |

C. READING **(60 points)**

Part 1: Read the following passage and mark the letter A, B, C or D on your answer sheet to indicate the best answer to each of the following questions. (15 points)

In the past, not a very long time ago, most people traveled on foot, by train, or on horseback. (1) \_\_\_\_\_ had made it possible to travel rapidly over long distances. Bicycles were also becoming (2) \_\_\_\_\_, after the invention of the air- filled (3) \_\_\_\_\_, which made cycling a lot more comfortable. Buses, trams, and underground railways had already been invented, and cities all over the world already had traffic (4) \_\_\_\_\_. There were very few private cars, and city streets were still full of horses. What a difference a hundred years have (5) \_\_\_\_\_! Nowadays we have got (6) \_\_\_\_\_to the problem of private cars, and some cities are so noisy and (7) \_\_\_\_\_ that in many places (8) \_\_\_\_\_ have been banned from the city centre. How will we be travelling in a hundred year’s time? Perhaps by then there will be only personal helicopters. There may be no need to (9) \_\_\_\_\_ to work or school in the future, (10) \_\_\_\_\_everyone will have a computer at home. There might even be more people walking and horse – riding, for pleasure and exercise.

**Question 1.** A. Tracks B. Railways C. Ways D. Lines

**Question 2.** A. then B. invented C. popular D. handlebars

**Question 3.** A. boot B. brake C. engine D. tyre

**Question 4.** A. blocks B. sticks C. knots D. jams

**Question 5.** A. taken B. done C. made D. got

**Question 6.** A. more B. them C. motorists D. used

**Question 7.** A. even B. so C. polluted D. poisoned

**Question 8.** A. traffic B. vehicles C. transport D. trips

**Question 9.** A. have B. transport C. decide D. commute

**Question 10.** A. if B. since C. when D. unless

**Your answers:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | 2. | 3. | 4. | 5. |
| 6. | 7. | 8. | 9. | 10. |

**Part 2: Fill in the blank with one suitable word. *(15 points)***

Of course, we all think our children are the best and brightest in the class, but have you ever seriously thought that your child might be highly intelligent? Does he or she (1) \_\_\_\_\_\_\_\_ out in class as being far ahead of his or her classmates? How can we be sure? Child psychiatrists and educationists have compiled a profile of (2) \_\_\_\_\_\_\_\_ gifted children so that parents can have the opportunity to see for themselves which characteristics are true for their own offspring and then take the appropriate (3) \_\_\_\_\_\_\_\_. Have a look at the profile below (4) \_\_\_\_\_\_\_\_ we hope will help you to form a truer opinion of your own child's intelligence.

Firstly, these children have an unusually wide vocabulary, enjoy reading and show (5) \_\_\_\_\_\_\_\_ about the world and what makes things work. Secondly, they are perfectionists, have the ability to work (6) \_\_\_\_\_\_\_\_\_, and are interested in adult topics such as religion, war, politics, and so on.

Furthermore, highly gifted children are sensitive, creative, and adventurous. They have a good sense of humor and usually have the ability to look (7) \_\_\_\_\_\_\_\_ the bright side of a difficult situation. They often show a desire to improve themselves and they dislike conforming just for the (8) \_\_\_\_\_\_\_\_ of it. Finally, they are self-confident - especially in the company of adults - adaptable and responsible.

All of the above characteristics (9) \_\_\_\_\_\_\_\_ to making up what is seen as a highly gifted child. If you feel that your child shows this particular combination, then it is advisable to get in (10) \_\_\_\_\_\_\_\_\_\_ with one of the organizations that exist to give guidance to parents where they will no longer feel "different " but, possibly for the first time, on equal footing with their peers.

**Your answers:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | 2. | 3. | 4. | 5. |
| 6. | 7. | 8. | 9. | 10. |

**Part 3: Read the text and choose the answer (A, B, C or D) which you think fits best according to the text. (15 points)**

The attraction of valuable objects from ships sinking in the oceans is always great. Until recently, hunting for treasure from shipwrecks was mostly fantasy; with recent technological advances, however, the search for **sunken** treasure has become more popular as a legitimate endeavor. This has caused a debate between those wanting to salvage the wrecks and those wanting to preserve them.

          Treasure hunters are spurred on by the thought of finding caches of gold coins or other valuable objects on a sunken ship. One team of salvagers, for instance, searched the wreck of the *RMS Republic*, which sank outside the Boston harbor in 1900. The search party, using side-scan sonar, a device that projects sound waves across the ocean bottom and produces **a profile** of the sea floor, located the wreck in just two and a half days. Before the use of this new technology, such searches could take months or years. The team of 45 divers searched the wreck for two months, finding silver tea services, crystal dinnerware, and thousands of bottles of wine, but they did not find the five and a half tons of American Gold Eagle coins they were searching for.

            Preservationists focus on the historic value of a ship. They say that even if a shipwreck’s treasure does not have a high monetary value, it can be an invaluable source of historic artifacts that are preserved in nearly **mint condition**. But once a salvage team has **scoured** a site, much of the archaeological value is lost. Maritime archaeologists who are preservationists worry that the success of salvagers will attract more treasure-hunting expeditions and thus threaten remaining undiscovered wrecks. Preservationists are lobbying their state lawmakers to legally restrict underwater searches and unregulated salvages. To counter their efforts, treasure hunters argue that without the  **lure** of gold and million-dollar treasures, the wrecks and their historical artifacts would never be recovered at all.

**Question 1:** What is the main idea of this passage?

A. The popularity of treasure-seeking has spurred a debate between preservationists and salvagers.

B. Maritime archaeologists are concerned about the unregulated searching of wrecks.

C. The search of the *RMS Republic* failed to produce the hoped-for coins.

D. Searching for wrecks is much easier with new technologies like side-scan sonar.

**Question 2:** The word **“sunken”** is closest in meaning to which of the following words?

A. underwater B. broken C. ancient D. hollow

**Question 3:** Which of the following could best replace the phrase **“a profile”** in the passage?

A. a projection B. an execution C. an outline D. a highlight

**Question 4:** Which of the following statements is best supported by the author?

A. The value of a shipwreck depends on the quantity of its artifacts.

B. Preservationists are fighting the use of technological advances such as side-scan sonar.

C. Side-scan sonar has helped to legitimize salvaging.

D. The use of sound waves is crucial to locating shipwrecks.

**Question 5:** The author uses the phrase **“mint condition”** to describe \_\_\_\_\_ .

A. something perfect B. something significant

C. something tolerant D. something magical

**Question 6:** All of the following were found on the *RMS Republic* EXCEPT \_\_\_\_\_ .

A. wine bottles B. silver tea services

C. American Gold Eagle coins D. crystal dinnerware

**Question 7:** From the passage, you can infer that a preservationist would be most likely to \_\_\_\_\_\_ .

A. shun treasure-seeking salvagers B. be a diver

C. put treasures in a museum D. do archaeological research

**Question 8:** The word **“scoured”** is most similar to which of the following?

A. scraped away B. scratched over C. scrambled around D. searched around

**Question 9:** What is the closest meaning to the word **“lure”** in the passage?

A. knowledge B. attraction C. luxury D. glare

**Question 10:** The second and third paragraphs are an example of \_\_\_\_\_ .

A. chronological order B. explanation

C. specific to general D. definition

**Your answers:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | 2. | 3. | 4. | 5. |
| 6. | 7. | 8. | 9. | 10. |

**Part 4: Read the passage and do the tasks that follow. (15 points)**

## ****The evolutional mystery:**** Crocodile survives

**A**

Crocodiles have been around for 200 million years, but they’re certainly not primitive. The early forms of crocodiles are known as Crocodilian. Since they spent most of their life beneath the water, accordingly their body adapted to the aquatic lifestyle. Due to the changes formed within their body shape and tendency to adapt according to the climate, they were able to survive when most of the reptiles of their period are just a part of history. In their tenure on Earth, they’ve endured the impacts of meteors, planetary refrigeration, extreme upheavals of the Earth’s tectonic surface, and profound climate change. They were around for the rise and fall of the dinosaurs, and even 65 million years of supposed mammalian dominance has failed to loosen their grip on the environments they inhabit. Today’s crocodiles and alligators are little changed from their prehistoric ancestors, a telling clue that these reptiles were (and remain) extremely well adapted to their environment.

**B**

The first crocodile-like ancestors appeared about 230 million years ago, with many of the features that make crocs such successful stealth hunters already in place: streamlined bodies, long tails, protective armor, and long jaws. They have a long head and a long tail that helps them to change their direction in the water while moving. They have four legs which are short and are webbed. Never underestimate their ability to move on the ground. When they move they can move at such a speed that won’t give you a second chance to make a mistake by going close to them especially when hungry. They can lift their whole body within seconds from ground. The fastest way by which most species can move is a sort of “belly run”, where the body moves like a snake, members huddled to the side paddling away frenetically while the tail whips back and forth. When “belly running” Crocodiles can reach speeds up to 10 or 11 km/h (about 7mph), and often faster if they are sliding down muddy banks. Other form of movement is their “high walk”, where the body is elevated above the ground.

**C**

Crocodilians have no lips. When submerged in their classic ‘sit and wait’ position, their mouths filled with water. The nostrils on the tip of the elongated snout lead into canals that run through bone to open behind the valve – allowing the crocodilian to breathe through its nostrils even though its mouth is underwater. When the animal is totally submerged, another valve seals the nostrils, so the crocodilian can open its mouth to catch prey with no fear of drowning. The thin skin on the crocodilian head and face is covered with tiny, pigmented domes, forming a network of neural pressure receptors that can detect barely perceptible vibrations in the water. This enables a crocodile lying in silent darkness to suddenly throw its head sideways and grasp with deadly accuracy small prey moving close by.

**D**

Like other reptiles, crocodiles are endothermic animals (cold-blooded, or whose body temperature varies with the temperature of the surrounding environment) and, therefore, need to sunbathe, to raise the temperature of the body. On the contrary, if it is too hot, they prefer being in water or in the shade. Being a cold-blooded species, the crocodilian heart is unique in having an actively controlled valve that can redirect, at will, blood flow away from the lungs and recirculate it around the body, taking oxygen to where it’s needed most. In addition, their metabolism is a very slow one, so, they can survive for long periods without feeding. Crocodiles are capable of slowing their metabolism even further allowing them to survive for a full year without feeding. Compared to mammals and birds, crocodilians have slow metabolisms that burn much less fuel, and are ideally suited to relatively unstable environments that would defeat mammals with their high food demands.

**E**

Crocodiles use a very effective technique to catch the prey. The prey remains almost unaware of the fact that there can be any crocodile beneath water. It is due to the fact that when the crocodile sees its prey it moves under water without making any noise and significant movement. It keeps only its eyes above water surface. When it feels it has reached sufficiently close to the target it whistles out of water with wide open jaws. 80 percent of their attempts are successful. They have very powerful jaws. Once the prey trapped in its jaws they swallow it. Their power can be judged from the fact they can kill the wild zebras which come to watery areas in search of water. They do not chew their food. They normally feed on small animals, big fish, birds and even human flesh. As like some water creatures that interact by making sounds crocodiles also use many sounds to communicate with other crocodiles. They exist where conditions have remained the same and they are free of human interference. The crocodile is successful because it switches its feeding methods. It hunts fish, grabs birds at the surface, hides among the water edge vegetation to wait for a gazelle to come by, and when there is a chance for an ambush, the crocodile lunges forward, knocks the animal with its powerful tail and then drags it to water where it quickly drowns. Another way is to wait motionless for an animal to come to the water’s edge and grabs it by its nose where it is held to drown.

**F**

In many places inhabited by crocodilians, the hot season brings drought that dries up their hunting grounds and takes away the means to regulate their body temperature. They allowed reptiles to dominate the terrestrial environment. Furthermore, many crocs protect themselves from this by digging burrows and entombing themselves in mud, waiting for months without access to food or water, until the rains arrive. To do this, they sink into a quiescent state called aestivation.

**G**

Most of (At least nine species of) crocodilians are thought to aestivate during dry periods. Kennett and Christian’s six-year study of Australian freshwater crocodiles – **Crocodylus Johnstoni (the King Crocodiles).**The crocodiles spent almost four months a year underground without access to water. Doubly labeled water was used to measure field metabolic rates and water flux, and plasma (and cloacal fluid samples were taken at approximately monthly intervals during some years to monitor the effects of aestivation with respect to the accumulation of nitrogenous wastes and electrolyte concentrations. Double found that the crocodiles’ metabolic engines tick over, producing waste and using up water and fat reserves. Waste products are stored in the urine, which gets increasingly concentrated as the months pass. However, the concentration of waste products in the blood changes very little, allowing the crocodiles to function normally. Furthermore, though the animals lost water and body mass (just over one-tenth of their initial mass) while underground, the losses were proportional: on emergence, the aestivating crocodiles were not dehydrated and exhibited no other detrimental effects such as a decreased growth rate. Kennett and Christian believe this ability of individuals to sit out the bad times and endure long periods of enforced starvation must surely be key to the survival of the crocodilian line through time.

#### **Questions 1-5**

The reading passage has seven paragraphs, **A-G**.

Choose the correct heading for paragraph **A-G** from the list below.

Write the correct number,***i-x***, in boxes***1 – 5*** on your answer sheet.

**List of Headings**

**i**           The competitors with the dinosaur

**ii** **A historical event for the Supreme survivors**

**iii**         What makes the crocodile the fastest-running animal on land

**iv**         Regulated body temperature by the surrounding environment

**v**          Underwater aid in body structure offered to a successful predator

**vi**         The perfectly designed body for a great land roamer

**vii**        Slow metabolisms which make crocodiles unique reptiles

**viii**       The favorable features of the impact of a drought

**xi**         Shifting Eating habits and food intake

**x**        A unique finding has been achieved recently

Example: Paragraph **A – ii**

**1.** Paragraph **B \_\_\_\_\_**

**2.** Paragraph **C \_\_\_\_\_**

**3.** Paragraph **D \_\_\_\_\_**

**4.** Paragraph **E \_\_\_\_\_**

**5.** Paragraph **F \_\_\_\_\_**

#### **Questions 6 - 10**

Complete the summary and write the correct answer (**NO MORE THAN TWO WORDS OR A NUMBER**) in boxes **6 – 10** on your answer sheet.

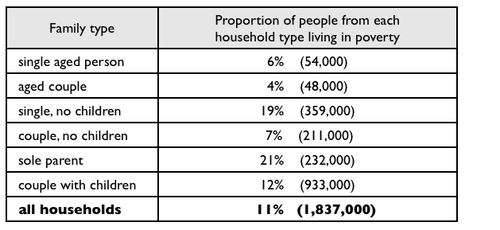
In many places inhabited by crocodilians, most types of crocodile have evolved a successful scheme to survive in the drought brought by a (**6)**……………………… According to Kennett and Christian’s six-year study of Australian freshwater crocodiles’ aestivation, they found Aestivating crocodiles spent around (**7)**……………………… a year without access to (**8)** ……………………… The absolute size of body water pools declined proportionately with (**9)** ………………………; thus there is no sign of (**10)** ……………………… and other health-damaging impacts in the crocodiles even after an aestivation period. This super capacity helps crocodiles endure the tough drought without slowing their speed of growth significantly.

**Your answers:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | 2. | 3. | 4. | 5. |
| 6. | 7. | 8. | 9. | 10. |

**D. WRITING (50 points)**

**Part 1: The table below shows the proportion of different categories of families living in poverty in Australia in 1999. (20 points)**



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**Part 2. Essay writing (30 points)**

*Chat GPT is an advanced natural language processing tool developed by OpenAI. It has gained a lot of popularity since its release in November 2022. Advantageous as it may be, this tool poses lots of threats to our lives in many aspects.*

*Write a 250-word essay to discuss both pros and cons of Chat GPT.*

………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….…………………………………………………………………………………………………….……………

The end