

ECAT Pre General Science English Chapter 8 Comprehension

Sr	Questions	Answers Choice
1	<p>What do you do with your orange peels and corn cobs after you are done eating? Most people throw them in the trash can. But food leftovers do not have to go into the trash. They are biodegradable, which means that they can be broken down by bacteria into natural materials. People who like to garden often put their fruit and vegetable scraps in a special place known as a compost pile. A compost pile is a spot outdoors where food waste can break down into compost, which gardeners use. This process takes several months. Once the compost is created, people spread this mixture in their gardens to add nutrients to the soil. The compost in the soil helps new plants grow in the garden. How do you take care of a compost pile? It needs air, water, and heat. Bacteria and other microorganisms break down the food waste into more basic elements like water and carbon dioxide. This process requires oxygen, so people use a shovel to turn compost regularly and help air reach all parts of the pile. The pile cannot dry out, so it could be covered to keep moisture in. Finally, heat speeds up the process. This means a compost pile should be in the sun for at least part of the day. Food leftovers are not the only things that turn into compost. You can also add yard waste like grass clippings, dried leaves, and straw. In fact, you should add these things to create a healthy balance in your compost. But do not add any weeds to your compost pile unless you want to grow weeds in your garden. Sometimes seeds are left behind in the compost. This can be a welcome surprise if you find a tomato plant sprouting where you had not planted one. The tomato seed was hiding in the compost, waiting to begin a new life in the garden.</p> <p>Question: The author apparently believes that a tomato plant</p>	<p>A. is not a weed B. should not go in a compost pile C. is the best thing a gardener can grow D. requires compost to grow</p>
2	<p>Q.5 Recent advances in science and technology have made it possible for geneticists to find out abnormalities in the unborn foetus and take remedial action to rectify some defects which would otherwise prove to be fatal to the child. Though genetic engineering is still at its infancy, a scientist can now predict with greater accuracy a genetic disorder it is not yet an exact science since they are not in a position to predict when exactly a genetic disorder will set in. While they have not yet been able to change the genetic order of the gene in germs they are optimistic and are holding out that in the near future they might be successful in achieving this feat they have however acquired the ability in manipulating tissue cells. However, genetic mis-information can sometimes be damaging for it may adversely affect people psychologically. Genetic information may lead to a tendency to brand some people as inferiors. Genetic information can therefore be abused and its application in deciding the sex of the foetus and its subsequent abortion is now hotly debated on ethical lines but on this issue geneticists cannot be squarely blamed though this charge has often been leveled at them it is mainly a societal problem. At present genetic engineering is a costly process of detecting disorders but scientists hope to reduce the costs when technology becomes more advanced. This is why much progress in this area has been possible in scientifically advanced and rich countries like the U.S.A, U.K and Japan. It remains to be seen if in the future this science will lead to the development of a race of supermen or will be able to obliterate disease from this world.</p> <p>o. What is the tone of the author in the last sentence of the passage</p>	<p>A. Resignation B. Cautious C. Relief D. Concert</p>
3	<p>On January 3, 1961, nine days after Christmas, Richard Legg, John Byrnes, and Richard McKinley were killed in a remote desert in eastern Idaho. Their deaths occurred when a nuclear reactor exploded at a top-secret base in the National Reactor Testing Station (NRTS). Official reports state that the explosion and subsequent reactor meltdown resulted from the improper retraction of the control rod. When questioned about the events that occurred there, officials were very reticent. The whole affair, in fact, was discussed much, and seemed to disappear with time.</p> <p>In order to grasp the mysterious nature of the NRTS catastrophe, it helps to know a bit about how nuclear reactors work. After all, the generation of nuclear energy may strike many as an esoteric process. However, given its relative simplicity, the way in which the NRTS reactor functions is widely comprehensible. In this particular kind of reactor, a cluster of nine-ton uranium fuel rods are positioned lengthwise around a central control rod. The reaction begins with the slow removal of the control rod, which starts a controlled nuclear reaction and begins to heat the water in the reactor. This heat generates steam, which builds pressure inside the tank. As pressure builds, the steam looks for a place to escape. The only place this steam is able to escape is through the turbine. As it passes through the turbine on its way out of the tank, it turns the giant fan blades and produces energy.</p> <p>On the morning of January 3, after the machine had been shut down for the holidays, the three men arrived at the station to restart the reactor. The control rod needed to be pulled out only four inches to be reconnected to the automated driver. However, records indicate that Byrnes yanked it out 23 inches, over five times the distance</p>	<p>A. Not mentioned in any official report about the incident B. Contaminated with toxic elements C. Completely annihilated D. Honored as a memorial to the</p>

necessary. In milliseconds the reactor exploded. Legg was impaled on the ceiling; he would be discovered last. It took one week and a lead-shielded crane to remove his body. Even in full protective gear, workers were only able to work a minute at a time. The three men are buried in lead-lined coffins under concrete in New York, Michigan, and Arlington Cemetery, Virginia.

tragic incident

The investigation took nearly two years to complete. Did Byrnes have a dark motive? Or was it simply an accident? Did he know how precarious the procedure was? Other operators were questioned as to whether they knew the consequences of pulling the control rod out so far. They responded "Of course! We often talked about what we would do if we were at a radar station and the Russians came.

"We'd yank it out."

Official reports are oddly ambiguous, but what they do not explain, gossip does. Rumors had it that there was tension between the men because Byrnes suspected the other two of being involved with his young wife. There is little doubt than he, like the other operators, knew exactly what would happen when he yanked the control rod.

Based on information in the passage, it can be inferred that, after the explosion and subsequent meltdown, the reactor was

Yellowstone National Park is the U.S. States of Wyoming, Idaho and Montana. It became the first National Park in 1872. There are geysers and hot springs at Yellowstone. There are also many animals at Yellowstone. There are elk, bison, sheep, grizzly, black bears, moose, coyotes, and more.

More than 3 million people visit Yellowstone National Park year. During the winter, visitors can ski or go snowmobiling there. There are also snow coaches that give tours. Visitors can see **steam** (vapor water) come from the geysers. During other seasons, visitors can go boating or fishing. People can ride horses there. There are nature trails and tours. Most visitors want to see Old Faithful, a very **predictable** geyser at Yellowstone. Visitors can check a schedule to see the exact time that Old Faithful is going to erupt. There are many other geysers and boiling springs in the area. Great Fountain Geyser erupts every 11 hours. Excelsior Geyser produces 4,000 gallons of **boiling** water each minute! Boiling water is 100 degrees Celsius, or 212 degrees Fahrenheit – that's very hot! People also like to see the Grand Prismatic Spring. It is the largest hot spring in the park. It has many beautiful colors. The beautiful colors are caused by **bacteria** in the water. These are forms of life that have only one cell. Different bacteria live in different water **temperatures**. Visiting Yellowstone National Park can be a week – long vacation or more. It is beautiful and there are activities for everyone.

- A. Snow
- B. Running water.
- C. Freezing water
- D. Water in vapor form

Steam is

When Greg went to the giant aquarium near his house, he had one type of animal that he loved to watch. He liked dolphins and manatees, but he loved whales. Baluga whales from the arctic were really neat, but it was the Killer Whales especially that had his heart. For hours, from the park opening until closing, he could watch them. Their black-and-white patterned skin reminded him of a tuxedo, a penguin, or even a zebra, but on the whales it seemed even more special. It made them stand out in the water. Their playfulness and intelligence amazed him, too. He liked to watch the trainers coax them through jumps, leaps, and other tricks. They talked and squawked at the trainers. One time the trainer even got launched into the air off the whale's nose. It was an impressive feat. It always surprised him now fast and agile such a massive creature could be. He always expected them to be slow and lumbering, but they were fast like a bullet, darting through their huge tanks and exploding from the water. In the park, they were fast like a bullet, darting through their huge tanks and exploding from the water. In the park, they ate fish and other snacks, and lots of them. In the wild, he understood why they had their fierce name. They could eat seals, sea lions, small whales, and just about anything they could catch. Their teeth were sharp and predatory. They were the top of the food chain - even more dangerous than sharks. The Killer Whales were amazing animals. They inspired him to learn more about the sea. He thought that some day he might want to be a marine biologist. Then, he could learn about his favourite animals as a job. For now, he'd have to settle for watching them through the tank's glass and reading about them. However, there was always the future.

Question:

Which of these is NOT a reason why Greg likes killer whales?

- A. their speed and power
- B. their colors
- C. their slowness
- D. their intelligence

Paul's wife knows Paul loves to read cookbooks. She decides to get him one for his birthday. Paul tells her he will try to make a new recipe for three days in a row. On Monday, Paul makes blueberry pancakes for breakfast. He gets the blueberries from the farmers' market. On Tuesday, Paul makes beef soup for dinner. He puts in cubes of beef, carrots, and onions. The recipe calls for cream, but Paul does not cream. He uses water instead. On Wednesday, Paul makes a tomato salad with cucumbers and onions. He picks the cucumbers and tomatoes from his garden. He likes this dish best. It was also the easiest for him to make.

- A. Cubes of beef
- B. Blueberries
- C. Tomatoes
- D. Cucumbers

What does Paul get from the farmer's market?

Nepal, a small, mountainous country tucked between India and China, may seem completely foreign to many Americans. Cows milk down busy streets unharmed, 24 different languages are spoken, and people eat two meals of rice and lentils every day. Nepali holidays, many of which are related to the Hindu religion, can seem especially bizarre to Americans unfamiliar with the culture. However, if we look beyond how others celebrate to consider the things they are celebrating, we find surprising similarities to our own culture. The biggest holiday in Nepal is Dashain, a ten-day festival for the Hindu goddess Durga that takes place in September or October. According to Hindu beliefs, Durga defeated the evil demons of the world. To thank the goddess, people visit temples in her honor and sacrifice goats or sheep as offerings. Throughout the year, most Nepalis do not eat much meat because it is expensive, but Dashain is a time to enjoy meat every day. Children fly colorful, homemade kites during Dashain. People also construct enormous bamboo swings on street corners and in parks. Every evening people gather at these swings and take turns swinging. Nepalis is a time for people to eat good food, relax and enjoy themselves. Aside from eating and enjoying themselves, during Dashain people also receive blessings from their elders. Schools and offices shut down so people can travel to be with their families. Reuniting with family reminds people of the importance of kindness, respect, and forgiveness. People also clean and decorate their homes for Dashain. And, like many holidays in the United States, it is a time for shopping. Children and adults alike get new clothes for the occasion. People express appreciation for all that they have, while looking forward to good fortune and peace in the year to come. During American holidays, people may not sacrifice goats or soar on bamboo swings, but we do often travel to be with family members and take time off work or school to relax. No matter how we celebrate, many people around the world spend their holidays honoring family, reflecting on their blessings, and hoping for good fortune in the future.

Question:

Which of the following sentences from the passage best indicates why the author thinks Nepal would seem very foreign to many Americans?

- A. "Cows walk busy streets unharmed, 24 different languages are spoken, and people eat two meals of rice and lentils every day."
- B. "Every evening people gather at these swings and take turns swinging."
- C. "People also clean and decorate their homes for Dashain."
- D. "During American holidays, people may not sacrifice goats or soar on bamboo swings, but we do often travel to be with family members and take time off work or school to relax."

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Q.4 Educational planning should aim at meeting the educational needs of the entire population of all age groups while the traditional structure of education as a three layer hierarchy from the primary stage to the university represents the core we should not overlook the periphery which is equally important. Under modern conditions workers need to rekindle or renew their enthusiasm or strike out in a new direction or improve their skills as much as any university professor the retired and the aged have their needs as well. Educational planning in their words should take care of the needs of everyone. Our structures of education have been built up on the assumption that there is a terminal point to education. This basic defect has become all the more harmful today. A UNESCO report entitled Learning to be prepared by Edgar Faure and others in 1973 asserts that the education of children must prepare the future should consist of modules with different kinds of functions serving a diversity of constituent. And performance not the period of study should be the basis for credentials. The writing is already on the wall. In view of the fact that the significance of a commitment of lifelong learning and lifetime education is being discussed in recent years even in educationally advanced countries the possibility of the idea becoming an integral part of the idea becoming an integral part of educational thinking seems to be a far cry. For to move in that direction means much more than some simple rearrangement of the present organization of education but a good beginning can be made by developing open university programs for older learners of different categories and introducing extension services in the conventional colleges and schools also these institutions should learn to cooperate with the numerous community municipal recreational programs health services etc.

k. In the context of the passage what is the meaning of the sentence the writing is already on the wall

- A. Everything is uncertain now-a-days
- B. Changes have already taken place
- C. The signs of change are already visible
- D. You cannot change the future

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Q.2 The public distribution system which provides food at low prices is a subject of vital concern. There is a growing realization that though Pakistan has enough food to feed its masses three square meals a day the monster of starvation and food insecurity continues to haunt the poor in our country. Increasing the purchasing power of the poor through providing

productive employment leading to rising income and thus good standard of living is the ultimate objective of public policy. However till then there is a need to provide assured supply of food through a restructured more efficient and decentralized public distribution system (PDS). Although the PDS is extensive it is one of the largest such systems in the world it has yet to reach the rural poor and the far off places it remains an urban phenomenon with the majority of the rural poor still out of its reach due to lack of economic and physical access. The poorest in the cities and the migrants are left out for they generally do not possess ration cards. The allocation of PDS supplies in big cities is larger than in rural areas in view of urgently needs to be streamlined. In addition considering the large food grains production combined with food subsidy on one hand and the continuing slow starvation and dismal poverty of the rural population on the other there is a strong case for making PDS target group oriented. The growing salaried class is provided job security regular income and percent insulation against these gains of development have not percolated down to the vast majority of our working population. If one only dearness allowance to the employees in public and private sector and looks at its growth in the past few years the rising food subsidy is insignificant to the point of inequity. The food subsidy is a kind of D.A to the poor the self-employed and those in the unorganized sector of the economy. It is true that subsidies should not become a permanent feature except for the destitute disabled widows and the old it is also true dependence and hence is habit-forming killing the general initiative of the people by making PDS target group oriented not only the poorest and neediest would be reached without additional cost but it will actually cut overall costs incurred on large cities and for better off localities when the food and food subsidy are limited the rural and urban poor should have the priority in the PDS supplies. The PDS should be closely linked with programs of employment generation and nutrition improvement.

a. Which of the following is the main reason for insufficient supply of enough food to

- A. Mismanagement of food stocks
- B. Absence of proper public distribution system
- C. Production of food is less than the demand
- D. Governments apathy towards the poor

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the poorest

The history of civilization shows how man always has to choose between making the right and wrong use of the discoveries science. This has never been more true than in our own age. In a brief period amazing discoveries have been made and applied to practical purpose.

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It would be ungrateful not to recognize how immense are the boons which science has given to mankind. It has brought within the reach of multitudes benefits and advantages which only a short time ago were the privilege of the few. It has shown how malnutrition, hunger and disease can be overcome. It has not only lengthened life but it has depended its quality. Fields of the work of science the ordinary and fuller life than was ever possible to his grandparents.

- A. It has reduced the quality of our life
- B. It has shortened our life
- C. It has depended the quality of our life
- D. It has done a great harm to mankind

What on the whole, has science done mankind?

Q.5 Recent advances in science and technology have made it possible for geneticists to find out abnormalities in the unborn foetus and take remedial action to rectify some defects which would otherwise prove to be fatal to the child. Though genetic engineering is still at its infancy, a scientist can now predict with greater accuracy a genetic disorder; it is not yet an exact science since they are not in a position to predict when exactly a genetic disorder will set in. While they have not yet been able to change the genetic order of the gene in germs, they are optimistic and are holding out that in the near future they might be successful in achieving this feat; they have however acquired the ability in manipulating tissue cells. However, genetic mis-information can sometimes be damaging for it may adversely affect people psychologically. Genetic information may lead to a tendency to brand some people as inferior. Genetic information can therefore be abused and its application in deciding the sex of the foetus and its subsequent abortion is now hotly debated on ethical lines but on this issue geneticists cannot be squarely blamed though this charge has often been leveled at them; it is mainly a societal problem. At present genetic engineering is a costly process of detecting disorders but scientists hope to reduce the costs when technology becomes more advanced. This is why much progress in this area has been possible in scientifically advanced and rich countries like the U.S.A, U.K. and Japan. It remains to be seen if in the future this science will lead to the development of a race of supermen or will be able to obliterate disease from this world.

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e. Which of the following is the opposite in meaning to the word charged as used in the passage?

- A. Calm
- B. Disturbed
- C. Discharged
- D. Settled

The history of the modern world is a record of highly varied activity, of incessant change, and of astonishing achievement. The lives of men have, during the last few centuries, increasingly diversified, their powers have greatly multiplied, their powers have greatly multiplied, their horizon has been enormously enlarged. New interests have arisen in rich profusion to absorb attention and to provoke exertion. New aspirations and new emotions have come to move the soul of men. Amid all the bewildering phenomena, interest, in particular, has stood out in clear and growing pre-eminence, has expressed itself in a multitude of ways and with an emphasis more and more pronounced, namely, the determination of the race to gain a larger measure of

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freedom than it has ever known before, freedom in the life of the intellect and spirit, freedom in the realm of government and law, freedom in the sphere of economic and social relationship. A passion that has prevailed so widely, that has transformed the world so greatly, and is still transforming it, is one that surely merits study and abundantly rewards it, its operations constitute the very pith and marrow of modern history.

- A. Men have developed a broad outlook on life
- B. Their intellectual powers have greatly expanded
- C. They have a wider area for the operation of their intellectual powers
- D. The facilities for travel have been multiplied

Not that this passion was unknown to the long ages that preceded the modern periods. The ancient Hebrews, the ancient Greeks and Roman blazed the way leaving behind them a precious heritage of accomplishments and suggestions and the men who were responsible for the Renaissance of the fifteenth century and the Reformation of the sixteenth century contributed their imperishable part to this slow and difficult emancipation of the human race. But it is in modern times the pace and vigour, the scope and sweep of this liberal movement have so increased unquestionably as to dominate the age, particularly the last three centuries that have registered great triumphs of spirit.

The horizon of the lives of men has been greatly enlarged. What does it mean?

First introduced in 1927, The Hardy Boys Mystery Stories are a series of books about the adventures of brothers Frank and Joe Hardy, teenaged detectives who solve one baffling mystery after another. The Hardy Boys were so popular among young boys that in 1930 a similar series was created for girls featuring a sixteen-year-old detective named Nancy Drew. The cover of each volume of The Hardy Boys states that the author of the series is Franklin W. Dixon; the Nancy Drew Mystery Stories are supposedly written by Carolyn Keene. Over the years, though, many fans of both series have been surprised to find out that Franklin W. Dixon and Carolyn

Keene are not real people. If Franklin W. Dixon and Carolyn Keene never existed, then who wrote The Hardy Boys and Nancy Drew mysteries?

The Hardy Boys and the Nancy Drew books were written through a process called ghostwriting. A ghostwriter writes a book according to a specific formula. While ghostwriters are paid for writing the books, their authorship is not acknowledged, and their names do not appear on the published books. Ghostwriters can write books for children or adults, the content of which is unspecific. Sometimes they work on book series with a lot of individual titles, such as The Hardy Boys and the Nancy Drew series.

The initial idea for both The Hardy Boys and the Nancy Drew series was developed by a man named Edward Stratemeyer, who owned a publishing company that specialized in children's book.

Stratemeyer noticed the increasing popularity of mysteries among adult, and surmised that children would enjoy reading mysteries about younger detectives with whom they could identify. Stratemeyer first developed each book with an outline describing the plot and setting. Once he completed the outline, Stratemeyer then hired a ghostwriter to convert it into a book of slightly over 200 pages. After the ghostwriter had written a draft of a book, he or she would send it back to Stratemeyer, who would make a list of corrections and mail it back to the ghostwriter. The ghostwriter would revise the book according to Stratemeyer's instructions and then return it to him. Once Stratemeyer approved the book, it was ready for publication.

- A. Guessed
- B. Questioned
- C. knew
- D. Proved

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Because each series ran for so many years, Nancy Drew and The Hardy Boys both had a number of different ghostwriters producing books; however, the first ghostwrites for each series proved to be the most influential. The initial ghostwriter for The Hardy Boys was a Canadian journalist named Leslie McFarlane. A few years later, Mildred A. Wirt, a young writer from Iowa, began writing the Nancy Drew books. Although they were using prepared outlines as guides, both McFarlane and Wirt developed the characters themselves. The personalities of Frank and Joe Hardy and Nancy arose directly from McFarlane's and wirt's imaginations. For example, Mildred Wirt had been a star college athlete and gave Nancy similar athletic abilities. The ghostwriters were also responsible for numerous plot and setting details. Leslie McFarlane used elements of his small C fictional hometown.

Although The Hardy Boys and Nancy Drew books were very popular with children, not everyone approved of them. Critics thought their plots were unrealistic and even far-fetched, since most teenagers did not experience the adventures Frank and Joe

Hardy or Nancy Drew did. The way the books were written also attracted criticism. Many teachers and librarians objected to the ghostwriting process, claiming it was designed to produce books quickly rather than create quality literature. Some libraries – including the New York Public Library – even refused to include the books in their children's collections. Ironically, this decision actually helped sales of his books, because children simply purchased them when they were unavailable in local libraries.

Regardless of the debates about their literary merit, each series of books has exerted an undeniable influence on American and even global culture. Most Americans have never heard of Edward Stratemeyer, Leslie McFarlane, or Mildred wirt, but people throughout the world are familiar with Nancy Drew and Frank and Joe Hardy.

As used in paragraph 3, which is the best definition for surmised?

Paul's wife knows Paul loves to read cookbooks. She decides to get him one for his birthday. Paul tells her he will try to make a new recipe for three days in a row. On Monday, Paul makes blueberry pancakes for breakfast. He gets the blueberries from the farmers' market. On Tuesday, Paul makes beef soup for dinner. He puts in cubes of beef, carrots, and onions. The recipe calls for cream, but Paul does not cream. He uses water instead. On Wednesday, Paul makes a tomato salad with cucumbers and onions. He picks the cucumbers and tomatoes from his garden. He likes this dish best. It was also the easiest for him to make.

- A. Milk
- B. Onions
- C. Water
- D. Butter

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What does Paul use instead of cream?

Where does chocolate come from? Believe it or not, it grows on trees. Not as a sweet chocolate candy bar wrapped in foil, but as a cocoa bean. These cocoa beans grow on a cacao tree, which is found in tropical areas such as Central and South America. The fruit of these are called pods, and they are long and hard. Inside the pods is a soft, white pulp that surrounds the thirty or so seeds. These seeds are what we call cocoa beans. They are very hard and bitter to the taste. To make chocolate, people start by carefully taking the beans out of the pods, still covered in the white pulp, and leaving them in a bucket. The bucket is often covered with banana leaves and left for anywhere from a few days to a few weeks. This

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process is called fermenting. Then the beans are left to dry in the sun. Fermenting and drying the beans makes them less bitter. Then the beans are shipped to a factory to be turned into chocolate. At the factory, beans are roasted in ovens to bring out their flavor. After roasting, the outer covering of the bean is removed. The inner bean is then crushed to form a paste known as chocolate liquor. From this paste, people can either make cocoa powder or the chocolate we buy in stores. To make cocoa powder, the paste is crushed and pressed repeatedly to remove the fat, leaving behind only a dry, ground powder. To make chocolate, people need to add other ingredients to the paste such as milk, sugar, and cocoa butter. They then mix and heat the concoction several times to create a substance we would recognize as chocolate. It may even have fruit, nuts, or candy added to it before it is molded into a shape. Considering all that must happen to turn a bitter cocoa bean into a chocolate bar, a dollar seems like a small price to pay for such a delicious sweet treat.

- A. fruit
- B. nuts
- C. candy
- D. sugar

Question:

According to the passage, which of these items is needed to make the chocolate that is available in stores?

The year 2006 was the golden anniversary, or the 50th birthday, of the Dwight D. Eisenhower National System of Interstate and Defense Highways. This system, usually referred to as The Interstate Highway System, is a system of freeways named after the U.S. President who supported it. The system is the largest highway system in the world, consisting of 46,876 miles (75,440 km) of freeways. The construction of the interstate highway system is an important part of American history. It has played a major role in **preserving** and maintaining the American way of life.

The interstate highway system has several major functions. One of its major functions is to **facilitate** the distribution of US goods. Because the interstate passes through many downtown areas, it plays an important role in the **distribution** of almost all goods in the United States. Nearly all products travel at least part of the way to their destination on the Interstate System. Another major function of the interstate is to facilitate military troop movement to and from airports, seaports, rail terminals and other military destinations. The Interstate highways are connected to route in the Strategic Highway Network, which is a system of highways that are **vital** to the U.S. Department of Defense.

Today, most of the Interstate system consists of newly constructed highways. The longest section of the Interstate system runs from Boston, Massachusetts to Seattle, Washington. It covers 3,020.54 miles. The shortest two-digit interstate is from Emery, North Carolina to Greensboro, North Carolina. It covers only 12.27 miles. All state capitals except five are served by the system. The five that are not directly served are Juneau, AK, Dover, DE, Jefferson City, MO, Carson City, NV, and Pierre, SD. The Interstate Highway System serves almost all major U.S. cities.

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EACH Interstate highway is marked with a red, white, and blue shield with the word "Interstate," the name of the state, and the route number. Interstate highways are named with one or two-digit numbers. North-south highways are **designated** with odd numbers; east-west highways are named with even numbers. The north-south Interstate highways begin in the west with the lowest odd number; the east-west highways begin in the south with the lowest even numbers. There are mile markers at each mile of the interstate system, starting at the westernmost or southernmost point on the highway. Every Interstate highway begins with the number "0". Interchanges are numbered according to their location on the highway in relation to mileage; an exit between milepost 7 and milepost 8 would be designated "Exit 7." This system allows drivers estimate the distance to a desired exit, which a road is leading off the highway. Despite the common acceptance of the numbering system on the Interstate highways, some states have adopted different numbering systems. For example, a portion of the Interstate 19 in Arizona is measured in kilometers instead of miles since the highway goes south to Mexico.

- A. Keep and maintain it
- B. Uphold and exercise it
- C. Strengthen it
- D. Make it more pleasant

Since the Interstate highways are freeways-highways that do not have signs and cross streets – they have the highest speed limits in the nation. Most interstate highways have speed limits between 65 – 75 miles per hour (105 – 120 kilometers per hour), but some areas in Texas and Utah have an 80 mile-per-hour (130 kilometer-per-hour) speed limit.

The federal government primarily funds interstate highways. However, they are owned and operated by the individual states or toll authorities in the states. The federal government generally funds up to 90% of the cost of an Interstate highway, while the states pay the remainder of the cost.

When you preserve something, you

Educational planning should aim at meeting the educational needs of the entire population of all age groups. While the traditional structure of education as a three layer hierarchy from the primary stage to the university represents the core, we should not overlook the periphery which is equally important. Under modern conditions,

workers need to rewind, or renew their enthusiasm, or strike out in a new direction, or improve their skills as much as any university professor. The retired and the age have their needs as well. Educational planning, in their words, should take care of the needs of everyone.

Our structures of education have been built up on the assumption that there is a terminal point to education. This basic defect has become all the more harmful today. A UNESCO report entitled 'learning to Be' prepared by Edgar Faure and others in 1973 asserts that the education of children must prepare the future adult for various forms of self – learning. A viable education system of the future should consist of modules with different kinds of functions serving a diversity of constituents. And performance, not the period of study, should be the basis for credentials. The writing is already on the wall.

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- A. Train the people at the core
- B. Encourage conventional schools and colleges
- C. Decide a terminal point to education
- D. Fulfill the educational needs of everyone

In view of the fact that the significance of a commitment of lifelong learning and lifetime education is being discussed only in recent years even in educationally advanced countries, the possibility of the idea becoming an integral part of educational thinking seems to be a far cry. For, to move in that direction means much more than some simple rearrangement of the present organization of education. But a good beginning can be made by developing Open University programs for older learners of different categories and introducing extension services in the conventional colleges and schools. Also these institutions should learn to cooperate with the numerous community organizations such as libraries. Museums, municipal recreational programs, health services etc.

According to the author, educational plan should attempt to

Q.5 Recent advances in science and technology have made it possible for geneticists to find out abnormalities in the unborn foetus and take remedial action to rectify some defects which would otherwise prove to be fatal to the child. Though genetic engineering is still at its infancy, a scientist can now predict with greater accuracy a genetic disorder. It is not yet an exact science since they are not in a position to predict when exactly a genetic disorder will set in. While they have not yet been able to change the genetic order of the gene in germs, they are optimistic and are holding out that in the near future they might be successful in achieving this feat. They have however acquired the ability in manipulating tissue cells. However, genetic mis-information can sometimes be damaging for it may adversely affect people psychologically. Genetic information may lead to a tendency to brand some people as inferiors. Genetic information can therefore be abused and its application in deciding the sex of the foetus and its subsequent abortion is now hotly debated on ethical lines. But on this issue, geneticists cannot be squarely blamed though this charge has often been leveled at them. It is mainly a societal problem. At present, genetic engineering is a costly process of detecting disorders, but scientists hope to reduce the costs when technology becomes more advanced. This is why much progress in this area has been possible in scientifically advanced and rich countries like the U.S.A, U.K and Japan. It remains to be seen if in the future this science will lead to the development of a race of supermen or will be able to obliterate disease from this world.

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- A. The cost involved is very high
- B. Some people are unjustly branded as inferior
- C. Both a and b
- D. Neither a nor b

h. Why according to the author is genetic misinformation severely damaging

Right now, I am looking at a shelf full of relics, a collection of has-beens, old-timers, antiques, fossils. Right now I am lolling at a shelf full of books. Yes that's right. If you have some spare cash (the doing rate is about \$89) and are looking to enhance your reading experience, then I highly suggest you consider purchasing an e-reader. E-readers are replacing the books of old, and I welcome them with open arms (as you should).

If you haven't heard of an e-reader and don't know what it is, then please permit the following explanation. An e-reader is a device that allows you to read e-books. An e-book is a book-length publication in digital form, consisting of text, images, or both, and produced on, published through, and readable on computers or other electronic devices. Sometimes the equivalent of a conventional printed book, e-books can also be born digital. The Oxford Dictionary of English defines the e-book as "an electronic version of a printed book, "but e-book can and do exist without any printed equivalent.

So now you know what an e-reader is. But you still may be wondering why they put printed books to shame. E-readers are superior to printed books because they save space, are environmentally friendly, and provide helpful reading tips and tools that printed books do not.

E-readers are superior to printed books because they save space. The average e-reader can store thousands of digital books, providing a veritable library at your fingertips. What is more, being the size and weight of a thin hardback, the e-reader itself is relatively petite. It is easy to hold and can fit in a pocketbook or briefcase easily. This makes handling ponderous behemoths such as War and Peace, Anna Karenina, and Les Misérables a breeze. Perhaps the only drawback to the space-saving aspect of an e-reader is that it requires you to find new things to put on your shelves.

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- A. A dog is left outside on a frigid, dreary winter night
- B. Team A defeats Team B in a humiliating rout
- C. Martha is caught stealing at the mall and is arrested in front of a

mail and is arrested in front of a crowd of curious bystanders
D. The machine has countless moving parts and Dustin has trouble assembling it

In addition, e-readers are superior to books because they are environmentally friendly. The average novel is about 300 pages long. So, if a novel is printed 1000 times, it will use 300,000 pieces of paper. That's a lot of paper! If there are about 80,000 pieces of paper in a tree, this means it takes almost 4 trees to make these 1000 books. Now, we know that the average bestseller sells about 20,000 copies per week. That means that it takes over 300 trees each month to sustain this rate. And for the super bestsellers, these figures increase dramatically. For example, the Harry Potter book series has sold over 450 million copies. That's about 2 million trees! Upon viewing these figures, it is not hard to grasp the severe impact of printed books on the environment. Since e-reader use no trees, they represent a significant amount of preservation in terms of the environment and its resources.

Finally, e-reader are superior to books because they provide helpful reading tips and tolls that printed books do not. The typical e-reader allows its user to customize letter size, font, and line spacing. It also allows highlighting and electronic bookmarking. Furthermore, it grants users the ability to get an overview of a book and then jump to a specific electronic bookmarking. Furthermore, it grants users the ability to get an overview of a book and then jump to a specific location based on that overview.

While these are all nice features, perhaps the most helpful of all is the ability to get dictionary definitions at the touch of a finger. On even the most basic e-reader, users can conjure instant definitions without having to hunt through a physical dictionary.

It can be seen that e-readers are superior to printed books. They save space, are environmentally friendly, and provide helpful reading tips and tools that printed books do not. So what good are printed books? Well, they certainly make nice decorations.

As used in paragraph 3, which of the following describes something that has been "put to shame"?

Fleas are perfectly designed by nature to feast on anything containing blood. Like a shark in the water or a wolf in the woods, fleas are ideally equipped to do what they do, making them very difficult to defeat. The bodies of these tiny parasites are extremely hardy and well-suited for their job.

A flea has a very hard exoskeleton, which means the body is covered by a tough, tile-like plate called a sclerite. Because of these plates, fleas are almost impossible to squish. The exoskeletons of fleas are also waterproof of fleas are also waterproof and shock resistant, and therefore fleas are highly resistant to the sprays and chemicals used to kill them.

Little spines are attached to his plate. The spine the flea scurries through an animal's fur in – search of grooming pet tries to pull a flea off through the hair coat, these spines will extend and stick to the fur like Velcro.

Fleas are some of the best jumpers in the natural world. A flea can jump seven inches, or 150 times its own length, either vertically or horizontally. An equivalent jump for a person would be 555 feet, the height of the Washington Monument. Fleas can jump 30,000 times in a row without stopping, and they are able to accelerate through the air at an incredibly high rate – a rate which is over ten times what humans can withstand in an airplane.

Fleas have very long rear legs with huge thigh muscles and multiple joints. When they get ready to jump. They fold their long legs up and crouch like a runner on a starting block. Several of their joints contain a protein called resilin, which helps catapult fleas into the air as they jump, similar to the way a rubber band provides momentum to a slingshot. Outward facing claws on the bottom of their legs grip anything they touch when they land.

The adult female flea mates after her first blood meal and begins producing eggs in just 1 to 2 days. One flea can lay up to 50 eggs in one day and over 2,000 in her lifetime. Flea eggs can be seen with the naked eye, but they are about the size of a grain of salt. Shortly after being laid, the eggs begin to transform into cocoons. In the cocoon state, fleas are fully developed adults, and will hatch immediately if conditions are favorable. Fleas can detect warmth, movement, and carbon dioxide in exhaled breath, and these three factors stimulate them to emerge as new adults. If the flea does not detect appropriate conditions, it can remain dormant in the cocoon state for extended periods. Under ideal conditions, the entire life cycle may only take 3 weeks, so in no time at all, pets and homes can become infested.

Because of these characteristics, fleas are intimidating opponents. The best way to control fleas, therefore, is to take steps to prevent an infestation from ever occurring.

According to the passage, fleas are able to jump

I with a high rate of acceleration

- A. I only
- B. I and II only
- C. II and III only
- D. I, II and III

II up and down and from side to side

III because the blood they eat contains resilin
