

Part A (5 X 2 = 10)
(Answer all the questions)

1	<p>Use appropriate tense forms</p> <p>a. He ----- (read) a book before going to bed.</p> <p>b. We ----- (visit) our grandparents every Sunday.</p>	C
2	<p>Identify the Parts of Speech</p> <p>a. The happy children played in the park.</p> <p>b. He writes stories every day.</p>	C
3	<p>Synonyms</p> <p>a. She felt very excited about her birthday party. a) Bored b) Thrilled c) Calm d) Brave</p> <p>b. The delicious cake was a hit at the party. a) Tasteless b) Flavorful c) Dry d) Small</p>	
4	<p>Rewrite into passive voice</p> <p>a. The chef cooked a delicious meal.</p> <p>b. The team won the championship.</p>	

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- Identify the word
- a. ----- happy (prefix meaning "not")
- b. care ----- (suffix meaning "without care")

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Part B (2 X 16 = 32) (1 X 8 = 8)

Reading Comprehension: read the following passage and answer the questions below. (16)

Blockchain is a type of distributed ledger technology (DLT) that enables data to be stored globally on thousands of servers while letting anyone on the network see everyone else's entries in near real-time. This makes it difficult for one entity to gain control of, or manipulate, the network. The most well-known application of blockchain technology is in cryptocurrencies, such as Bitcoin, but its uses go far beyond just digital currencies.

At its core, a blockchain is a sequence of blocks, which are records of new transactions. Once a block is completed, it is added to the chain in chronological order. Each block is linked to the previous one through cryptography, creating a secure, tamper-resistant record of all transactions. This decentralized structure ensures that no central authority, like a bank or government, controls the data, which contrasts sharply with traditional financial systems.

6. One of the most significant features of blockchain technology is its transparency. Every participant in the network has access to the same data, which enhances trust and security. However, the data stored in a blockchain is encrypted, and only those with the appropriate decryption key can access specific information, ensuring privacy when needed.

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Blockchain has wide-ranging applications. Beyond cryptocurrencies, it can be used in supply chain management to track products from their origin to the consumer, in healthcare to protect patient data, and even in voting systems to ensure election integrity. Due to its potential to reduce fraud, increase transparency, and improve efficiency, blockchain is gaining attention across industries.

Despite its advantages, blockchain is not without challenges. One of the major concerns is scalability, as the process of validating transactions and adding new blocks can be slow. Additionally, the environmental impact of certain blockchain networks, particularly those using the proof-of-work consensus mechanism, has raised concerns due to the high energy consumption involved.

As blockchain technology continues to evolve, many believe it has the potential to transform various sectors and redefine how we handle data. While it is still a relatively new concept, its influence is growing, and it could soon become a vital part of the global digital infrastructure.

Choose the correct answer. (5x1=5)

1. What is the primary characteristic of blockchain technology?
 - a) Centralized control over data
 - b) Secure, decentralized ledger of transactions
 - c) Controlled by government and banks
 - d) Only applicable to financial systems
2. Which of the following is NOT mentioned as an application of blockchain technology?
 - a) Cryptocurrencies
 - b) Healthcare
 - c) Voting systems
 - d) Social media platforms
3. How does blockchain ensure the security and integrity of the data stored within it?
 - a) By using centralized databases
 - b) Through cryptography and decentralization
 - c) By restricting access to only a few authorized entities
 - d) By keeping all data hidden from participants
4. What is one of the major concerns associated with blockchain technology?
 - a) It is too simple to scale
 - b) High energy consumption in certain networks
 - c) Lack of transparency
 - d) Limited applications outside of finance
5. Which feature of blockchain enhances trust and security among participants?
 - a) Data is kept hidden from all participants
 - b) Only authorized participants can modify the data
 - c) Every participant has access to the same data
 - d) The network is controlled by a single entity

Identify whether the statements are True or False (5x1=5)

6. Blockchain technology is completely controlled by central authorities like banks and governments.
7. One of the major challenges of blockchain technology is its scalability, which can make transaction validation slow.
8. Blockchain can only be used for cryptocurrencies and has no other practical applications.
9. The transparency of blockchain comes from the fact that all participants in the network have access to the same data.
10. Blockchain's security relies on cryptography, which makes it difficult to tamper with past transactions.

Answer in 20 words. (3x2=6)

1. Why is blockchain considered transparent yet secure?
2. What are two challenges associated with blockchain technology?
3. How might blockchain transform industries in the future?

7.	<p>a. Write a letter introducing yourself to an investor and seeking an opportunity to present your business idea. (16)</p> <p>(or)</p> <p>b. Write a letter introducing your colleague to your friend, an investor, to pitch a business idea. (16)</p>	C102
8.	<p>Develop the Hints and write a paragraph in 150 words (8)</p> <p>Arduino – Italian – microcontrollers – available – commercially – preprogrammed – bootloader – default bootloader – optiboot bootloader – current boards – programmed – usb – sketch – program – written – Arduino – Arduino software – extension - .pde – minimal Arduino – C/C++ program commands – setup () & loop () – most boards – contain – LED – Arduino – free libraries.</p>	C102.1