



SEBI GRADE A DESCRIPTIVE ENGLISH

**Previous Year Papers
Phase 2**

2020-2025

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Preface

Dear Students,

We are pleased to present this recollected question paper with answer keys for the **SEBI Grade A Descriptive English** subject, covering the past six years from 2020 to 2025(Exam held 4 times). This document has been meticulously prepared to serve as a valuable resource for candidates preparing for the SEBI Grade A Phase 2 Exam.

By practising questions that have been actually asked in the examination, aspirants can gain clarity on the **exam pattern, difficulty level, and types of questions** likely to appear in the upcoming exam.

We wish you all the best in your exam preparation journey and hope that this document serves as a valuable asset in strengthening your performance and confidence.

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Disclaimer: While every effort has been made to ensure the accuracy and relevance of the questions and answer keys, minor variations in question wording or options may exist due to the memory-based nature of this compilation. Candidates are advised to use this document as a reference tool to enhance their comprehensive understanding of the syllabus and overall exam readiness for the SEBI Grade A examination.



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SEBI Grade A 2020
Phase 2
Descriptive
English
Recollected
Questions

Essay Writing

Q.1 Write an Essay of about 200 words on any one of the following topics: -(30 Marks)

- 1.Importance of teamwork in an organization.
2. Pros and Cons of Mergers and acquisitions of companies.
3. Role of technology in detecting and preventing financial frauds.
4. Fake news and how to identify them.

Precis Writing

Q.2 Read the given passage and draft a precis within 170 words:- (30 Marks)

For decades, psychologists and sociologists have pushed back against the theories of mainstream finance and economics, arguing that human beings are not rational utility-maximizing actors and that markets are not efficient in the real world. The field of behavioral economics arose in the late 1970s to address these issues, accumulating a wide swath of cases when people systematically behave "irrationally." The application of behavioral economics to the world of finance is known, unsurprisingly, as behavioral finance. From this perspective, it's not difficult to imagine the stock market as a person: It has mood swings (and price swings) that can turn on a dime from irritable to euphoric; it can overreact hastily one day and make amends the next. But can human behavior really help us understand financial matters? Does analyzing the mood of the market provide us with any hands-on strategies? Behavioral finance theorists suggest that it can. Behavioral finance is a subfield of behavioral economics, which argues that when making financial decisions like investing people are not nearly as rational as traditional finance theory predicts. For investors who are curious about how emotions and biases drive share prices, behavioral finance offers some interesting descriptions and explanations. The idea

that psychology drives stock market movements flies in the face of established theories that advocate the notion that financial markets are efficient. Proponents of the efficient market hypothesis (EMH), for instance, claim that any new information relevant to a company's value is quickly priced by the market. As a result, future price moves are random because all available (public and some non-public) information is already discounted in current values.

We can ask ourselves if these studies will help investors beat the market. After all, rational shortcomings should provide plenty of profitable opportunities for wise investors. In practice, however, few if any value investors are deploying behavioral principles to sort out which cheap stocks actually offer returns that are consistently above the norm. The impact of behavioral finance research still remains greater in academia than in practical money management. While theories point to numerous rational shortcomings, the field offers little

in the way of solutions that make money from market manias. The behavioralists have yet to come up with a coherent model that actually predicts the future rather than merely explain, with the benefit of hindsight, what the market did in the past. The big lesson is that theory doesn't tell people how to beat the market. Instead, it tells us that psychology causes market prices and fundamental values to diverge for a long time. Behavioral finance offers no investment miracles to capitalize on this divergence, but perhaps it can help investors train themselves on how to be watchful of their behavior and, in turn, avoid mistakes that will decrease their personal wealth.

Reading Comprehension

Q.3 Read the given passage and answer the given questions: -(40 Marks)

Money, whether it's represented by a metal coin, a shell or a piece of paper, doesn't always have value. Its value depends on the importance that people place on it—as a medium of exchange, a unit of measurement, and a storehouse for wealth. Money allows people to trade goods and services indirectly, it helps communicate the price of goods (prices written in dollar and cents correspond to a numerical amount in your possession, i.e. in your pocket, purse, or wallet), and it provides individuals with a way to store their wealth in the long-term. Money is valuable merely because everyone knows that it will be accepted as a form of payment. However, throughout history, both the usage and the form of money have evolved. While most of the time, the terms "money" and "currency" are used interchangeably, there are several theories that suggest that these terms are not identical. According to some theories, money is inherently an intangible concept, while currency is the physical (tangible) manifestation of the intangible concept of money. Being rich is simply having a lot of money or income. It comes down to how much cash you have in your bank account. But just because you're rich, doesn't mean you are wealthy. In fact, being rich can often mean that you are spending a lot of money. It can also mean that you have a lot of debt. It doesn't matter how much money you have if your expenses are higher than your income.

By extension, according to this theory, money cannot be touched or smelled. Currency is the coin, note, object, etc. that is presented in the form of money. The basic form of money is numbers; today, the basic form of currency is paper notes, coins, or plastic cards (e.g. credit or debit cards). While this distinction between money and currency is important in some contexts, for the purposes of this article, the terms are used interchangeably. Money—in some way, shape or form—has been part of human history for at least the last 3,000 years. Before that time, historians generally agree that a system of bartering was likely used. One of the greatest achievements of the introduction of money was increasing the speed at which business, whether mammoth-slaying or monument-building, could be done. The 21st century has given rise to two novel forms of currency: mobile payments and virtual currency. Mobile payments are money rendered for a product or service through a portable electronic device, such as a cell phone, smartphone, or a tablet device. Mobile payment technology can also be



used to send money to friends or family members. Increasingly, services like Apple Pay and Google Pay are vying for retailers to accept their platforms for point-of-sale payments. Bitcoin, released in 2009 by the pseudonymous Satoshi Nakamoto, quickly became the standard for virtual currencies. Virtual currencies have no physical coinage. The appeal of virtual currency is it offers the promise of lower transaction fees than traditional online payment mechanisms, and virtual currencies are operated by a decentralized authority, unlike government-issued currencies. Despite many advances, money still has a very real and permanent effect on how we do business today.

Q.1 On the basis of the passage, describe why money is considered as an idea.

Q.2 Discuss how money is intangible according to the passage.

Q.3 According to author, what is difference between having money and being rich.

Q.4 Describe the evolution of money on the basis of the passage.

Q.5 Discuss why money is considered important as a commodity.



SEBI Grade A 2022
Phase 2
Descriptive
English
Recollected
Questions

Essay Writing

Q.1 Write an Essay of about 200 words on any one of the following topics: -(30 Marks)

1. Mental Health and its impacts should be spoken about.
2. Role of Banks in Financial Literacy.
3. Techno-stress; its impacts on students and teachers in education sector.
4. Asset Reconstruction Companies

Precis Writing

Q.2 Read the given passage and draft a precis within 150 words: -(30 Marks)

Certainly, with the advent of globalization, the market has become more competitive, because it has opened the opportunity for new competitors. This does not necessarily mean risk for the survival of local businesses, but a challenge that they must consider. This challenge relates to the need to create greater consumer loyalty to products and services, greater suitability of the product to the consumer's needs and greater concern about the social impact of the company. Moreover, this global scenario represents some opportunities for the companies to act in the new markets. It is clear that this action will depend mainly on the quality of their own products and services offered.

However, first, the concept of product quality is not so immediate and obvious. Although not universally accepted, the definition for quality with greater consensus is that "suitability for the consumer usage." This definition is comprehensive because it includes two aspects: characteristics that lead to satisfaction with the product and the absence of failures. In fact, the main component consists of the quality characteristics of the product features that meet the consumers' needs and thus it provides satisfaction for the same. These needs are related not only to the intrinsic characteristics of the product, such as the sensory characteristics of a food product, but also to its availability in the market with a compatible price and in a suitable packaging. The other part is the absence of faults, which is related to the characteristics of the product according to their specifications, making the consumer inspired by the reliability of the product, i.e., the consumer is sure that he will acquire a safe product, without health risks, and with the properties claimed on the label.

For these objectives to be achieved it is required an efficient management of quality, which implies continuous improvement activities at each operational level and in every functional area of the organization. The quality management combines commitment, discipline and a growing effort by everyone involved in the production process and fundamental techniques of management and administration, with the goal of continuously improving all processes.

For that, the industries need to be structured organizationally, establish policies and quality programs, measure customers' satisfaction and even use more quality tools and methodologies. Specifically for the food industry, also involves the knowledge and application of techniques and programs for product safety.

Reading Comprehension

Q.3 Read the given passage and answer the given questions: -(40 Marks)

Role of Weather Forecasting in Agriculture Sector.

Agriculture and farming are mainly dependent on seasons and weather. The temperature matters a lot in that case when it comes to the farming of different kinds of fruits, vegetables, and pulses. Previously we did not have a better understanding of weather forecasting and farmers were still doing their job based on predictions. Though sometimes they occur loss due to false predictions of weather. Now that the technology is developed and special weather forecasting mechanisms are available, the farmers can get all the updates are on a smartphone. Education towards that is, of course, an important thing but most of the farmer population at this stage knows the basics which make it easy for them to use the features.

Occurrences of erratic weather are beyond human control. It is possible, however, to adapt to or mitigate the effects of adverse weather if a forecast of the expected weather can be obtained in time. Forecasts should ideally be used for small areas. Some aspects of weather forecasts for agriculture are quite distinct from synoptic weather forecasts. While clear weather is required for sowing operations, it must be preceded by seed zone soil moisture storage. Crop weather factors mean that crops and cropping practices vary across areas within the same season. In the case of well-organized weather systems, the desired areal delineation of forecasts can be realized. The area to which the weather forecasts will be applied must be unambiguously stated.

Weather forecasting is a prediction on conditions of atmosphere depending on location and time. Every area will have their different predictions related to the condition of weather which makes pretty easy for the farmers to know how and what to do when. The relationship between weather and agriculture has, therefore, necessitated the need for accurate prediction of the weather; to enable farmers to make an informed decision that will not bring losses to them. Temperature, sunlight, and rainfall have major effects on the crops. For livestock, temperatures and adequate water and food are essential.

The forecast of the weather event helps for suitable planning of farming operations. It helps to decide whether to undertake or withhold the sowing operation. To irrigate the crop or not, when to apply fertilizer and whether to start complete harvesting or to withhold it are the major components for which forecasting is a must.

Irrigation is an artificial application of water to land for agricultural production and farming. The requirements for irrigation and crop growth are affected by weather variability. The amount of timing and evapotranspiration are two main weather-related requirements. Climate variability is something that all farmers need to react upon. Extended



periods of dry conditions, commonly known as drought is one of the major impacts in the irrigation system. So if their proper forecast is done chances of losses are way lower than expected. Drought can increase daily crop water use due to lower humidity and accompanied by higher temperatures. Managing under the extreme conditions, irrigators need to understand daily and seasonal crop water use patterns, as well as adopt practices and technology which result in good production of crops.

Timing of fertilizer has a significant effect on crop yields. Proper timing of the fertilizer application increases yields, reduces nutrient losses and prevents damage to the environment. Wrong timing and not predicting the weather may result to waste of fertilizer and even damage the crop. Knowledge of how the application of the fertilizer is done is required. Weather forecast can help the farmers to decide the timing on when to apply them and in which condition. Both the resources and money could be wasted if the application of fertilizer is done wrong and hence a proper knowledge and prediction is a must. According to research, fertilizing plants in winter is not good as the crops do not actively grow. Actual temperatures may shift above and below averages from year to year.

The consequences of unseasonal changes in temperature and their potential negative effects on host plants and pests are very well known. Unseasonably high temperatures may lead to lower plant productivity and more pests on the farm. Applying pest and disease control is important to protect the farm and crops from the insects. Weather forecast helps the farmers to know when to apply the pests and chemicals to avoid the crop wastage. By some estimates, up to 40 percent of the world's food supply is already lost due to pests. Reduction in pests and applied chemicals is important to ensure global food security, reduced application of inputs and decreased greenhouse emissions. Climate-smart pest management is a cross-sectoral approach that aims to highly reduce pest induced crop losses. And the method along with the forecast should be applied everywhere to ignore the wastage.

The method of getting experts to do tailor-made weather forecast is a little bit expensive compared with the use of the cheap weather forecast information available in the media but it is beneficial to the farmers in the long run. In the future, therefore, farmers will come to rely on the satellite forecasting due to numerous advantages.

Q.1 Discuss the co-relation between Agriculture and Weather forecasting.

Q.2 How does Weather forecasting helps the farmers?

Q.3 How important is weather forecasting with respect to Irrigation?

Q.4 Discuss the role of fertilizers in a crop cycle?

Q.5 Discuss the impact of seasonal changes of temperature on the crops.

SEBI Grade A 2024
Phase 2
Descriptive
English
Recollected
Questions

Essay Writing

Write an Essay of about 250 -270 words on any one of the following topics: (30 Marks)

1. How Environment, Social and Governance (ESG) norms help in Global business prospects. Comment.
2. Discuss how Organizations and Management can nurture organizational culture
3. What role can Banks play in pushing Social Healthcare expenditure.
4. "1 machine can replace 5 average human beings, but 5 machines cannot replace 1 smart human." Elaborate.

Precis Writing

Q2. Make a Précis of the following passage in 140 - 160 words and give it a suitable title. (30 Marks)

The gaming industry has undergone a profound transformation since the 2000s, evolving from a niche hobby into a multi-billion-dollar global powerhouse. This rapid evolution has been fueled by technological advancements, the rise of the internet, and shifts in consumer preferences. What was once considered a pastime for children and teenagers has now become a central part of modern culture and, for many, a lucrative career. This shift has allowed gaming not only to shape lifestyles but also to create new avenues for revenue generation for players, developers, and streamers alike.

In the early 2000s, gaming was predominantly driven by consoles like the PlayStation, Xbox, and Nintendo's offerings, with games sold primarily through physical media such as CDs or cartridges. As technology advanced, games became more visually sophisticated and immersive, allowing for more complex storytelling and multiplayer experiences. The introduction of broadband internet in the mid-2000s revolutionized the gaming landscape, enabling online multiplayer gaming to flourish. By 2010, gaming had grown into a \$50 billion industry, with both console and PC gaming thriving.

One of the most transformative developments was the shift from physical to digital distribution. Platforms like Steam allowed players to download games directly to their devices, making gaming more accessible and convenient. This move also democratized game development, allowing independent developers to reach global audiences without needing large publishing deals.

The explosion of mobile gaming in the 2010s further transformed the industry. With smartphones becoming ubiquitous, mobile games attracted millions of new players. By 2019, mobile gaming accounted for nearly half of the global gaming market's \$150 billion in



revenue. This growth was driven by the free-to-play model, which allowed players to download games for free and make optional in-game purchases through microtransactions. This business model became a major source of revenue for both mobile and traditional game developers.

As gaming became more mainstream, it also began to influence lifestyle and culture. Platforms like YouTube and Twitch, launched in the late 2000s, enabled players to broadcast their gameplay to global audiences, creating the phenomenon of “game streaming.” Professional streamers could build massive followings and generate revenue through donations, subscriptions, and advertising. As of 2023, Twitch had over 2.5 million active streamers per month, and the global live-streaming industry was valued at over \$3 billion.

Esports, or competitive gaming, also emerged as a significant part of the gaming ecosystem. What started as small tournaments in the early 2000s has grown into a global industry, with professional leagues, massive prize pools, and millions of viewers. In 2022, the global esports market was valued at over \$1.3 billion, with top players earning millions through sponsorships, tournament winnings, and brand deals.

The rise of gaming as a lifestyle has opened numerous pathways for individuals to earn money. Professional gamers can pursue careers in esports, where tournaments offer life-changing prize pools. Streamers and content creators can monetize their platforms through advertising revenue, viewer subscriptions, and brand partnerships. Game developers, both indie and mainstream, now have access to global audiences through digital distribution, reducing the barriers to entry and enabling creative minds to earn a living through their passion.

In addition, the growth of gaming-related content on social media platforms has led to new forms of influencer marketing, where top gamers promote products or services to their audiences. In 2021, gaming content creators generated an estimated \$9.3 billion in global revenue, demonstrating the enormous financial potential of gaming as a profession.

Since the 2000s, the gaming industry has evolved from a niche entertainment sector into a global cultural and economic force. With the rise of digital distribution, mobile gaming, streaming, and esports, gaming has not only become a popular lifestyle choice but also a viable career for millions. As technology continues to evolve, the gaming industry is poised to grow further, creating even more opportunities for players, developers, and entrepreneurs.

Reading Comprehension

Read the passage given below and answer the questions based on the passage in your own words. (40 Marks)

The rise of social media in the early 21st century sparked a profound shift in how people connect, communicate, and consume content. Platforms like Facebook, Instagram, YouTube, and later TikTok have transformed from simple social networking sites to powerful marketing engines. At the core of this transformation is the emergence of social media influencers—individuals with large, dedicated online followings who hold the power to shape trends, drive consumer behavior, and create new cultural movements. Today, the influencer marketing industry is a multi-billion-dollar ecosystem, and its rapid growth is underpinned by compelling data and clear shifts in media consumption.

The influencer landscape traces its roots back to the early 2000s with the rise of personal blogs. Bloggers, particularly in the fashion, lifestyle, and beauty niches, gained loyal readerships by sharing personal stories, product reviews, and tips. As social media platforms like Facebook (2004), YouTube (2005), and Instagram (2010) gained popularity, these content creators shifted their focus to visual and video-based content. Social media allowed influencers to reach broader audiences and engage directly with followers in real-time, further deepening their impact.

In the early 2010s, brands started to recognize the value of these influencers in driving word-of-mouth marketing. Unlike traditional celebrities, influencers were seen as more relatable, accessible, and authentic. Studies have shown that 49% of consumers rely on influencer recommendations before making a purchase, underscoring the power of these digital personalities in shaping consumer behavior.

The rise of influencer marketing has been meteoric. In 2016, the global influencer marketing industry was valued at \$1.7 billion. By 2022, that figure skyrocketed to \$16.4 billion, with projections indicating further growth to \$21.1 billion by 2023. This rapid expansion is driven by a variety of factors, including the shift to digital media consumption, the rise of e-commerce, and the increasing preference for personalized, authentic advertising experiences.

A survey by Influencer Marketing Hub in 2022 revealed that 93% of marketers had used influencer marketing in their strategies, demonstrating its ubiquity across industries. From beauty and fashion to fitness, tech, and gaming, influencers now play a central role in brand campaigns, often replacing traditional advertising methods.

Different platforms cater to different types of influencers and audiences. YouTube, with over 2.5 billion monthly users as of 2023, has become a hub for long-form video content, particularly for gaming, lifestyle, and education influencers. Instagram, with its 2.35 billion active users, remains the dominant platform for fashion, beauty, and travel influencers, leveraging its visually driven format and Stories feature. Meanwhile, TikTok, which surpassed



1.1 billion users in 2023, has revolutionized the short-form video landscape, giving rise to viral trends and making it a hotspot for younger, Gen Z influencers.

Micro-influencers, defined as those with 10,000 to 100,000 followers, have seen significant growth in popularity. A 2021 study revealed that micro-influencers generate 60% more engagement than larger influencers, despite having smaller followings. Brands increasingly prefer these influencers for their niche appeal, perceived authenticity, and deeper connections with their audiences.

For influencers, the monetization potential has grown exponentially alongside their audiences. Influencers can earn money through various channels, including sponsored posts, affiliate marketing, ad revenue, product collaborations, and even launching their own brands. In 2022, top influencers with millions of followers earned between \$100,000 and \$500,000 per post on Instagram, while micro-influencers could command anywhere from \$1,000 to \$10,000 per sponsored post, depending on the engagement and niche.

The influencer market is so profitable that 84% of influencers surveyed by Mediakix in 2022 stated they earn more from influencer activities than from their previous full-time jobs. This has made influencing a lucrative full-time career for many, while also creating an entire economy around influencer agencies, talent managers, and social media strategists.

As the industry matures, new trends are emerging, particularly around artificial intelligence (AI) and virtual influencers. AI-driven influencers, such as Lil Miquela, have millions of followers despite being computer-generated personas. These virtual influencers can seamlessly create content, interact with followers, and promote products—blurring the line between reality and the digital world. As AI technology advances, the influence of these digital avatars is expected to grow, with some analysts projecting that AI influencers could become a \$50 billion market by 2030.

The rise of social media influencers represents a profound shift in the marketing and media landscape. With the global influencer marketing industry set to surpass \$21 billion in 2023, it is clear that influencers are no longer just trendsetters but central figures in modern advertising and digital culture. As consumers increasingly seek authentic and personalized content, influencers will continue to shape purchasing decisions and cultural trends, making this industry an integral part of the digital economy for years to come.

Q1. What factors contributed to the exponential growth of the influencer marketing industry?

Q2. How have social media platforms like YouTube, Instagram, and TikTok impacted the reach and specialization of influencers?

Q3. What are the key differences between macro-influencers and micro-influencers in terms of engagement and monetization potential?

Q4. How has the rise of influencer marketing impacted traditional advertising methods, and why do brands prefer influencers over conventional ads?

Q5. What roles do artificial intelligence (AI) and virtual influencers play in the future of influencer marketing, and how could they reshape the industry?



**SEBI Grade A 2025
Phase 2
Descriptive
English
Recollected
Questions**

Essay Writing

Q1. Write an Essay of about 250 -270 words on any one of the following topics: (30 Marks)

1. How Social media platforms impact political agenda, politics and shape public opinions during elections?
2. Discuss how flaming quick commerce is undergoing transformation to become sustainable.
3. How can fast Railways transportation beat Airway transportation?
4. Several global posts are held by Indian influential people. What does this mean for the country?

Precis Writing

Q2. Make a Précis of the following passage in 140 - 160 words and give it a suitable title. (30 Marks)

The announcement of a temporary trade agreement between the United States and China — the world's two largest economies — has offered a moment of cautious relief in an otherwise turbulent global trade environment. Under the deal, the U.S. has agreed to reduce its sweeping tariffs on Chinese goods from a punishing 145% to 30% for a period of 90 days, while China has reciprocated by lowering its tariffs on American imports from 125% to 10%. The response from global financial markets was immediate and enthusiastic, with indices across the world surging between 2% and 3.8% as investors welcomed the de-escalation. This thaw, however, does not emerge from a vacuum. It is the product of months of steadily rising economic hostility. The cycle of tariff escalation began in earnest when U.S. President Donald Trump announced, on February 1, varying tariffs on imports from China, Mexico, and Canada. The tension deepened further when, in early April, Mr. Trump announced a 90-day pause on so-called "reciprocal" tariffs for most countries — yet pointedly excluded China from that reprieve. The message was unmistakable: China was being singled out for maximum economic pressure.

The latest agreement can be read through two very different lenses. One interpretation is that Mr. Trump has blinked — that the sheer unsustainability of 145% tariffs, which effectively severed normal trade flows between the two nations, forced Washington to step back. The joint statement released by both sides, which opens by acknowledging "the importance of their bilateral economic and trade relationship," lends credence to this view. It suggests a tacit recognition that the two economies are too deeply intertwined to be decoupled by brute-force tariffs.

The opposing view, however, holds that Mr. Trump's hardball tactics worked. China, facing economic headwinds of its own, was brought to the negotiating table precisely because the tariff pressure was so severe. Tariffs of 145% were never meant to be permanent; they were

a negotiating weapon, and they appear to have served that purpose. Yet the core grievance that sparked the trade war — America's vast and growing trade deficit with China — remains entirely unresolved. Both sides have agreed to continue talks, and the outcome of those negotiations will determine whether this fragile truce holds or whether hostilities resume once the 90-day window expires.

For India, the implications are layered with both uncertainty and clarity. On the uncertain side, a successful U.S.-China rapprochement could redirect global investment flows back toward China, whose manufacturing advantages in terms of scale and cost remain formidable. The China+1 diversification strategy, which India has struggled to capitalize upon adequately, could lose momentum. Simultaneously, India's own trade negotiations with the U.S. remain fraught; New Delhi has notified the World Trade Organisation of potential retaliatory measures against American duties on steel and aluminium, signaling that bilateral tensions are far from resolved.

The certainties, however, are stark. India's trade deficit with China continues to widen, and no external agreement will change that. The uncomfortable truth is that "Make in India" remains structurally dependent on Chinese imports for components and raw materials. Until the Centre and States together push through meaningful labour and land reforms that enable cost-competitive, large-scale domestic manufacturing, India will remain a spectator in the global trade realignment rather than a true beneficiary of it.

Reading Comprehension

Q3. Read the passage given below and answer the questions based on the passage in your own words. (40

Marks)

In an era defined by the relentless expansion of the digital economy, data centers have emerged as the invisible backbone of modern civilisation. They power cloud computing, artificial intelligence, social media platforms, streaming services, and financial systems. Yet hidden behind the seamless convenience of these technologies lies an alarming and often overlooked reality: data centers are voracious consumers of one of Earth's most precious and finite resources — fresh water. The scale of this consumption is staggering, and its implications for water security, environmental health, and sustainable development are only beginning to receive the urgent attention they deserve.

Data centers generate enormous quantities of heat as thousands of servers process and store information around the clock. To prevent this equipment from overheating — which would cause catastrophic hardware failures and data loss — facilities rely on sophisticated cooling systems. The most widely used method is evaporative cooling, in which large volumes of water are circulated through cooling towers, where they absorb heat and evaporate into the atmosphere. This process is highly effective but extraordinarily water-intensive. A single large-scale data center can consume between 1 million and 5 million gallons of water every single day — an amount comparable to the daily water usage of a mid-sized town



The global proliferation of data centers has amplified this problem enormously. According to industry estimates, data centers worldwide consumed approximately 660 billion litres of water in 2021 alone, a figure that is projected to grow exponentially as artificial intelligence workloads intensify demand. Training a single large AI language model, for instance, can consume hundreds of thousands of litres of water — a fact that has drawn growing scrutiny from environmentalists and policymakers. Tech giants including Google, Microsoft, and Meta operate vast campus-scale data centers across the United States, Europe, and Asia, each placing enormous pressure on regional freshwater supplies.

The geographical placement of data centers often exacerbates water stress in regions already grappling with scarcity. Many facilities are strategically located in rural or semi-arid areas where land is cheap and temperatures are relatively cool, reducing cooling costs. However, these are precisely the regions where water tables are already strained by agriculture, growing populations, and the effects of climate change. In the American Southwest, for example, data centers compete directly with farming communities for access to dwindling groundwater reserves. In regions like Rajasthan in India or parts of South Africa, the construction of data facilities risks deepening existing water inequalities, where local communities face restrictions while corporations draw freely from the same sources.

The energy dimension further complicates the picture. Thermoelectric power plants, which generate the electricity that data centers consume, also require vast quantities of water for cooling. This creates a compounding effect: data centers demand electricity, which demands water, while simultaneously demanding water directly for their own cooling operations. This dual water dependency positions the digital sector as one of the most water-intensive industries in the world — a fact that sits in sharp tension with the tech industry's carefully cultivated green image.

Efforts to address this crisis are underway but remain insufficient in scale. Some companies are experimenting with air-based cooling systems, recycled grey water, or locating facilities near cold ocean or river water sources to reduce freshwater dependence. Microsoft has famously explored underwater data centers as part of its Project Natick. A number of data center operators have committed to achieving 'water positive' status by 2030, meaning they aim to replenish more water than they consume. Regulatory frameworks in the European Union and parts of the United States are beginning to mandate water usage disclosures, creating pressure for greater transparency and accountability.

Nevertheless, the fundamental tension between digital growth and water sustainability remains unresolved. As the world's appetite for data, AI services, and cloud computing grows without any clear ceiling, the freshwater footprint of the digital economy will continue to expand. Without bold policy intervention, technological innovation, and corporate accountability, the hidden thirst of the digital age threatens to become one of the defining environmental crises of the twenty-first century — one that pits the demands of the virtual world directly against the survival needs of the natural one.

1. Why do data centers require such large quantities of water, and what role does evaporative cooling play in their operations?
2. How has the rise of artificial intelligence intensified the water consumption crisis associated with data centers?
3. In what ways does the geographical placement of data centers worsen water stress in vulnerable regions?
4. Explain the dual water dependency of data centers in relation to energy consumption.
5. What measures are being taken by governments and technology companies to reduce



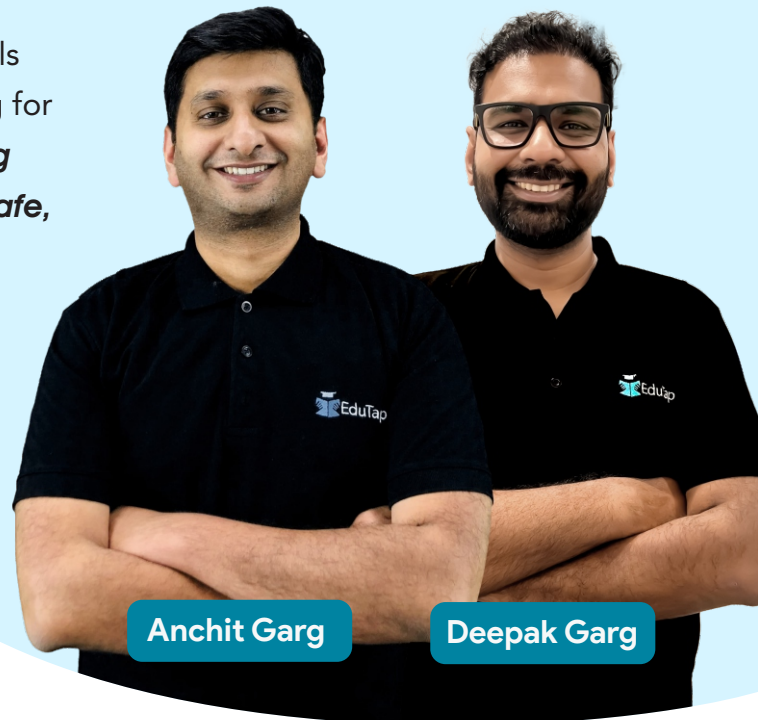
What Next?

- 1. Identify Right Source:** Follow the best study resources (books, online courses, videos, etc.) for each topic on the list. Do not follow multiple sources for the same topic but rather follow good sources multiple times.
- 2. Topic Prioritization:** Review the document to identify key topics that require special attention. Prioritize your study schedule based on the significance of each topic in the syllabus. Ensure a balanced approach, allocating more time to critical subjects.
- 3. Width of Syllabus:** Merely going through the syllabus is not enough; Regularly revisit the document to reassess what topics actually need to be covered.
- 4. Depth of Understanding:** Recognize the varying depths at which topics should be covered. While some concepts demand a broad understanding, others require a more in-depth analysis. Tailor your study approach, accordingly, allocating more time to complex topics that demand deeper comprehension.

EduTap

About Us

We are a passionate team of experienced professionals who understand the challenges of aspirants preparing for government jobs. Our vision is to *"create a nurturing ecosystem for the aspirants so that they can feel safe, guided, and mentored."*



Anchit Garg

Deepak Garg

Our Mission

At EduTap, our mission is to empower students to reach their full potential by providing comprehensive guidance, expert mentorship, and a supportive community. Since our start in 2016, we've grown into a trusted platform for aspirants, delivering exceptional results in government recruitment exams and certifications year after year.

Why Choose Us



Our **mentors walk with you every step of the way**, providing personalized guidance and insightful advice.



Our courses offer a **comprehensive curriculum** that covers all aspects of the exam, from theoretical knowledge to practical application.



We have a **track record of helping students (even if they are not our paid subscribers)** achieve their dreams, with consistently high results in leading government exams.



We help you connect with a **community of like-minded individuals** who share your goals and support your journey.