



XAT 2022

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Verbal Ability & Logical Reasoning

1. Which of the following sentences are grammatically CORRECT ?

1. Have you any clothes to dispose of?
2. I saw a pleasant dream last night.
3. I have done it many a times safely.
4. Students struggle to cope up with academic pressure.
5. You need not give negative feedback to your employees.
6. My friend is good at playing football.

- A 4,5,6
- B 1,5,6
- C 2,3,4
- D 3,4,5
- E 1,2,3

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2. Read the poem carefully, and answer the following question.

I smiled at you because I thought that you
Were someone else; you smiled back; and there
grew
Between two strangers in a library
Something that seems like love; but you loved
me

(If that's the word) because you thought that I
Was other than I was. And by and by
We found we'd been mistaken all the while
From that first glance, that first mistaken smile
Which of the following CANNOT be inferred from the poem?

- A The idea of love is different for the parties involved.
- B Love may start with small acts like glancing and smiling.
- C We make mistakes in love.
- D We don't fall in love with others but with ourselves.
- E We fall in love with strangers.

3. Carefully read the following statement:

The moment we no longer have a free press, anything can happen. What makes it ____ for a totalitarian or any other dictatorship to rule is that ____ are not informed; how can you have an opinion if you are not informed? If everybody always lies to you, the ____ is not that you believe the lies, but rather that nobody believes anything any longer. This is because lies, by their very nature, have to be changed, and a lying government has ____ to rewrite its own history.

Which of the following options will BEST fill up the above blanks meaningfully?

- A Possible, people, consequence, constantly

- B Absurd, subjects, beauty, no reason
- C Unique, senators, reason, enough
- D Necessary, citizens, joy, unusually
- E Unpleasant, plebeians, fact, forced

4. Read the passage carefully and answer the following question.

Geologists have been investigating a potential cycle in geological events for a long time. Back in the 1920s and 30s, scientists of the era had suggested that the geological record had a 30-million-year cycle, while in the 1980s and 90s researchers used the best-dated geological events at the time to give them a range of the length between 'pulses' of 26.2 to 30.6 million years. Now, everything seems to be in order -27.5 million years is right about where we'd expect. A study late last year suggested that this 27.5-million-year mark is when mass extinctions happen, too.

Which of the following statements can be BEST concluded from the passage?

- A Not all species go extinct once every 27.5 million years
- B "Pulse" between geological events is constant
- C All species go extinct once every 27.5 million years
- D Geological disasters happen sporadically
- E Mass extinctions and "geological pulse" are correlated

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5. Carefully read the following statement:

When I ask people to name three recently implemented technologies that most impact our world today, they usually propose the computers, the Internet and the laser. All three were unplanned, _____, and _____ upon their discovery and remained _____ well after their initial use.

Which of the following options will BEST fill up the above blanks meaningfully?

- A Unpredicted, Unappreciated, Unappreciated
- B Amazing, Shocking, Shocking
- C Surprising, Fulfilling, Unfulfilling
- D Astonishing, Amazing, Amazing
- E Astonishing, Superb, Superb

6. Which of the following sentences have INCORRECT usage of preposition?

1. The manager was sitting at the desk.
2. My work is superior to yours.
3. I prefer coffee than tea.
4. She was accused for stealing gold.
5. This is an exception to the rule.
6. They are leaving to England soon.

- A 1,2,3
- B 3,4,5

C 3,4,6

D 2,3,4

E 1,3,6

7. Arrange the following sentences in a LOGICAL sequence:

1. But when it comes to companies that lack computer programmers, the government is far more sympathetic.
2. As a result, limited access to foreign talent is a common gripe of tech founders and venture capitalists.
3. And, demand for the latter has soared among British startups.
4. This is less inconsistent than it may seem.
5. An HGV driver takes between six and ten weeks to train; a competent coder several years.

A 3,4,2,1,5

B 1,4,5,3,2

C 3,5,1,2,4

D 1,2,5,3,4

E 3,5,4,2,1

XAT Previous Papers

8. Arrange the following sentences in a LOGICAL sequence:

1. In America, primary-age pupils are on average five months behind where they would usually be in maths, and four months in reading, according to McKinsey, a consultancy.
2. As a new school year gets under way in many countries, the harm caused by months of closure is becoming ever clearer.
3. The crisis will accelerate that trend.
4. The damage is almost certainly worse in places such as India and Mexico, where the disruption to schooling has been greater.
5. Even before pandemic, parents around the world were growing more willing to pay for extra lessons in the hope of boosting their children's education.

A 2,1,4,5,3

B 5,1,3,2,4

C 3,5,2,4,1

D 2,3,1,4,5

E 5,3,2,1,4

9. Read the passage carefully and answer the following question.

One theory of accidents is what experts call the Swiss Cheese model. A slab of swiss cheese has several holes, randomly and unevenly distributed over its surface. If several slabs are stacked together, it would be impossible for something to slip through unless all the holes happen to line up. If even one slab doesn't align, the impending catastrophe will meet a layer of resistance, and the worst is averted. Aviation professionals will tell you that plane crashes never happen for a single reason. There may be an identifiable primary factor, but it's usually a chain of events, an array of circumstances neatly piling up. Which of the following statements can be BEST concluded from the passage?

- A Averting catastrophe is actually easier than it seems
- B Any historically relevant event is an accident because it involves a chain of preceding events
- C Accidents cannot be averted since a chain of events have to be averted to avert accidents
- D A catastrophe can be averted if the preceding array of events meets resistance
- E Any disaster is a culmination of many events happening in a particular order

Instructions [10 - 12]

Read the passage carefully and answer the THREE questions that follow.

Comprehension:

Stupidity is a very specific cognitive failing. Crudely put, it occurs when you don't have the right conceptual tools for the job. The result is an inability to make sense of what is happening and a resulting tendency to force phenomena into crude, distorting pigeonholes.

This is easiest to introduce with a tragic case. British high command during the First World War frequently understood trench warfare using concepts and strategies from the cavalry battles of their youth. As one of Field Marshal Douglas Haig's subordinates later remarked, they thought of the trenches as 'mobile operations at the halt': i.e., as fluid battle lines with the simple caveat that nothing in fact budged for years. Unsurprisingly, this did not serve them well in formulating a strategy: they were hampered, beyond the shortage of material resources, by a kind of 'conceptual obsolescence', a failure to update their cognitive tools to fit the task in hand. In at least some cases, intelligence actively abets stupidity by allowing pernicious rationalisation.

Stupidity will often arise in cases like this, when an outdated conceptual framework is forced into service, mangling the user's grip on some new phenomenon. It is important to distinguish this from mere error. We make mistakes for all kinds of reasons. Stupidity is rather one specific and stubborn cause of error. Historically, philosophers have worried a great deal about the irrationality of not taking the available means to achieve goals: Tom wants to get fit, yet his running shoes are quietly gathering dust. The stock solution to Tom's quandary is simple willpower. Stupidity is very different from this. It is rather a lack of the necessary means, a lack of the necessary intellectual equipment. Combatting it will typically require not brute willpower but the construction of a new way of seeing our self and our world. Such stupidity is perfectly compatible with intelligence: Haig was by any standard a smart man.

10. Which of the following statements BEST summarizes the author's view on stupidity?

- A Comprehending a problem by applying our existing world view is stupidity
- B The inability to avoid forcing our current views on a new situation is stupidity
- C Pushing our extant solution to fix an alien problem is stupidity
- D The inability to comprehend what is happening around us is stupidity
- E The novelty of the problem, in relation to our cognitive capacity, is the cause of stupidity

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11. Which of the following statements BEST explains why stupidity for a smart person is "perfectly compatible with intelligence"?

- A Intelligence is poorly defined, and is usually a perception, making it compatible with stupidity.
- B A new phenomenon creates fear, rushing intelligent people to explain it to put others at ease.
- C Past successes make us believe that we are intelligent and capable of explaining any new phenomenon.

- D Intelligent people are scared to admit their lack of knowledge, and therefore, try to explain everything, including things they do not understand.
- E Intelligence, when perceived through past successes, makes any rationalization of a new phenomenon acceptable.

12. Based on the passage, which of the following can BEST help a leader avoid stupidity?

- A Be ready to discuss with everyone before taking a decision
- B Being aware that our current answers are only applicable to the current context
- C Being aware that we are short of the required resources
- D Be cautious in taking a decision until the future unfolds
- E Being aware that we must handle future with a different cognitive tool

13. Read the excerpt carefully and answer the following question.

The over-whelming preponderance of people have not freely decided what to believe, but, rather, have been socially conditioned (indoctrinated) into their beliefs. They are unreflective thinkers.

Which of the following statements CANNOT be concluded from the excerpt?

- A A normal thinker finds it difficult to recognize what is happening to them
- B Beliefs that appear normal and natural heighten their acceptance
- C A lot of people end up believing what they passionately oppose
- D Things that we do automatically need to be reflected upon
- E The inability to criticize one's belief leads to indoctrination

XAT Decision Making Mock Tests

Instructions [14 - 16]

Read the passage carefully and answer the THREE questions that follow.

Comprehension:

What bullshit essentially misrepresents is neither the state of affairs to which it refers nor the beliefs of the speaker concerning that state of affairs. Those are what lies misrepresent, by virtue of being false. Since bullshit need not be false, it differs from lies in its misrepresentational intent. The bullshitter may not deceive us, or even intend to do so, either about the facts or about what he takes the facts to be. What he does necessarily attempt to deceive us about is his enterprise. His only indispensably distinctive characteristic is that in a certain way he misrepresents what he is up to. This is the crux of the distinction between him and the liar. Both he and the liar represent themselves falsely as endeavoring to communicate the truth. The success of each depends upon deceiving us about that. But the fact about himself that the liar hides is that he is attempting to lead us away from a correct apprehension of reality; we are not to know that he wants us to believe something he supposes to be false. The fact about himself that the bullshitter hides, on the other hand, is that the truth-values of his statements are of no central interest to him; what we are not to understand is that his intention is neither to report the truth nor to conceal it. This does not mean that his speech is anarchically impulsive, but that the motive guiding and controlling it is unconcerned with how the things about which he speaks truly are. It is impossible for someone to lie unless he thinks he knows the truth. Producing bullshit requires no such conviction. A person who lies is thereby responding to the truth, and he is to that extent respectful of it. When an honest man speaks, he says only what he believes to be true; and for the liar, it is correspondingly indispensable that he considers his statements to be false.

14. Which of the following statements can be BEST inferred from the passage?

- A Both the liar and the bullshitter misrepresent the truth
- B Both the liar and the bullshitter intend to deceive in their own ways
- C Both the liar and the bullshitter are guided by the truth
- D Both the liar and the bullshitter live in their own worlds of realities
- E Both the liar and the bullshitter are not bound by any conviction

15. Why does the author say that the bullshitter's intention "is neither to report the truth nor to conceal it?"

- A Because bullshitters are not convinced about the truth
- B Because bullshitters know the truth
- C Because bullshitters do not like to deceive
- D Because bullshitters do not find the truth useful
- E Because bullshitters are respectful to the truth

16. When will a liar BEST turn into a bullshitter?

- A When a liar stops responding to the truth
- B When a liar stops worrying about the correct comprehension of reality
- C When a liar focusses only on the outcome and not on telling lies
- D When a liar lies to people about his intention
- E When a liar stops misrepresenting the state of affairs

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Instructions [17 - 19]

Read the passage carefully and answer the THREE questions that follow.

Comprehension:

What does a good life look like to you? For some, the phrase may conjure up images of a close-knit family, a steady job, and a Victorian house at the end of a street arched with oak trees. Others may focus on the goal of making a difference in the world, whether by working as a nurse or teacher, volunteering, or pouring their energy into environmental activism. According to Aristotlean theory, the first kind of life would be classified as "hedonic"—one based on pleasure, comfort, stability, and strong social relationships. The second is "eudaimonic," primarily concerned with the sense of purpose and fulfilment one gets by contributing to the greater good. The ancient Greek philosopher outlined these ideas in his treatise *Nicomachean Ethics*, and the psychological sciences have pretty much stuck with them ever since when discussing the possibilities of what people might want out of their time on Earth. But a new paper, published in the *American Psychological Association's Psychological Review*, suggests there's another way to live a good life. It isn't focused on happiness or purpose, but rather it's a life that's "psychologically rich."

What is a psychologically rich life? According to authors Shige Oishi, a professor of psychology at the University of Virginia, and Erin Westgate, an assistant professor of psychology at the University of Florida, it's one characterized by "interesting experiences in which novelty and/or complexity are accompanied by profound changes in perspective." Studying abroad, for example, is one way that college students often introduce psychological richness into their lives. As they learn more about a new country's customs and history, they're

often prompted to reconsider the social mores of their own cultures. Deciding to embark on a difficult new career path or immersing one's self in avant-garde art (the paper gives a specific shout-out to James Joyce's *Ulysses*) also could make a person feel as if their life is more psychologically rich.

Crucially, an experience doesn't have to be fun in order to qualify as psychologically enriching. It might even be a hardship. Living through war or a natural disaster might make it hard to feel as though you're living a particularly happy or purposeful life, but you can still come out of the experience with psychological richness. Or you might encounter less dramatic but nonetheless painful events: infertility, chronic illness, unemployment. Regardless of the specifics, you may experience suffering but still find value in how your experience shapes your understanding of yourself and the world around you.

17. Which of the following statements BEST contrasts Hedonic from Eudaimonic?

- A** Hedonic focuses on the emptiness from seeking pleasure, while Eudaimonic focuses on the fulfillment by giving pleasure to others
- B** Hedonic focuses on what gives pleasure to self, while Eudaimonic focuses on what he/she believes benefits the society
- C** Hedonic believes that pleasure leads to fulfillment while Eudaimonic believes that fulfillment leads to pleasure
- D** Hedonic believes in seeking pleasure while Eudaimonic focuses on depriving oneself of pleasure
- E** Hedonic focuses on pleasure to self while Eudaimonic focuses on pleasure to the other

18. Which of the following statements BEST defines a "psychologically rich life"?

- A** A life that offers interesting experiences that makes you question what life is
- B** Any novel experience that affects us cognitively makes us psychologically rich
- C** A life that is filled with learning opportunities that makes us an expert in a particular area
- D** A life that is filled with novel experiences which changes our view of what a good life is
- E** A life where novel experiences result in a fundamental change to our existing views

19. Which of the following statements can be BEST concluded from the passage?

- A** A psychologically rich life is a good life.
- B** A bad experience can enrich someone psychologically.
- C** An unpleasant experience can enable a good life.
- D** A good life should not be seen in binary terms.
- E** Life need not be good, but can still be psychologically rich.

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Instructions [20 - 22]

Read the passage carefully and answer the THREE questions that follow.

Comprehension:

What Arendt does for us is to remind us that our "publicness" is as important to our flourishing as our sociability and our privacy. She draws a distinction between what it means to act "socially" and what it means to act "politically." The social realm for Arendt is both the context where all our basic survival needs "are

permitted to appear in public” and also the realm of “behaviour.” One of the things she fears about modern societies is that society - focused on how we behave and what we will permit for ourselves and others - becomes the realm of conformism. This is worrying not just because we don’t really get vibrant societies out of conformism and sameness, but also, Arendt says because there is a risk that we think this is all there is to our living together. We lose ourselves in the tasks of managing behaviour and forget that our true public task is to act, and to distinguish ourselves in doing so. The risk, says Arendt, is therefore that we confuse behaviour with action, that in modern liberal societies “behaviour replaces action as the foremost mode of human relationship.” This confusion can happen in any area of our modern lives and institutions, secular or faith-based. None is immune.

Arendt wants to drive home the point that the healthy public life requires that we do not just see ourselves as social actors but also as fully public persons, committed to judging and acting as members of a common world we want to inhabit and pass on. Arendt tells us that public action is action in which we stand out, are individuated, become in some way excellent in a manner that is of service to others and a greater good. This is the space where we take risks, subject our common life to scrutiny, seek justice (that sometimes requires us to transgress what seem like accepted laws) in order to be increasingly open to the claims and needs of other humans - ones who are not our household and our kin.

20. According to the passage, who can be BEST categorised as a “public person”?

- A** An NGO employee who was tasked to lead a campaign against tribal land acquisition.
- B** A wildlife photographer who highlighted the plight of poverty-stricken migrants by posting their pictures.
- C** An online fraud victim who ran a campaign against online fraudsters.
- D** A parent who organized protests against the random fee hike by a local school.
- E** A local politician who filed RTI applications to unearth financial scams by a village panchayat.

21. Based on the passage, which of the following options BEST describes “public action”?

- A** Acting based on our core beliefs while being mindful of what society thinks
- B** Acting for a just cause regardless of what society thinks about it
- C** Acting in a way that is perceived to be anti-social
- D** Acting based on our conviction regardless of what society thinks
- E** Acting in a way that is seen as acceptable to the society

22. Which of the following is the BEST reason for focusing on behaviour instead of acting in public?

- A** We are dependent on each other, leading to focus on what is accepted by others
- B** Our fear of being called out on our imperfect thoughts leads us to behave
- C** Our focus is to survive and not to flourish
- D** To survive is not to distinguish ourselves from others
- E** The foundation of any vibrant society is based on cooperation and not confrontation

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Instructions [23 - 24]

Read the poem carefully, and answer the TWO questions that follow.

Comprehension:

It hurts to walk on new legs:

The curse of consonants. The wobble of vowels.

And you for whom I gave up a kingdom

Can never love that thing I was.

When you look into my past

You see

Only weeds and scales.

Once I had a voice.

Now I have legs.

Sometimes I wonder

Was it a fair trade?

23. Which of the following statements BEST reflects the theme of the poem?

- A Our concern for loss is more than what we gain.
- B Our quest for love is accompanied with pain.
- C Our loss of identity is irreparable.
- D As the future unfolds, our distant past looks pleasant.
- E Nostalgic recollection undermines materialistic gains.

24. What does the author BEST mean by "Once I had a voice. /Now I have legs?"

- A The poet is contemplative of his/her identity
- B The poet has lost his/her speech
- C The poet puts less value on the new world
- D The poet's actions speak louder than his/her words now
- E The poet is indecisive about choosing between the two worlds

25. Which of the following conditional sentences are grammatically INCORRECT?

1. If Sandhya had started from the hotel on time, she would have not missed the flight.
2. The students wouldn't have completed their assignment even if the professor would have been there.
3. I had travelled across Europe if I weren't afraid of airplane crashes.
4. Saurav won't join music classes unless his father will ask him.
5. Should you wish to join the party, you must let me know by this evening.
6. We would be stupid if we shared our strategy with her.

- A 4,5,6
- B 1,5,6
- C 2,3,4
- D 3,4,5
- E 1,2,3

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26. Read the passage carefully and answer the following question.

Labouring is simply what we do to survive. We labour to eat. To keep our bodies healthy. To keep roof over our heads, and to keep life reproducing. All animals labour, with or without coaxing.... There's nothing special about labour, save for the fact that without it we would die.

Work, on the other hand, gives collective meaning to what we do. When we work to produce something we both put something into and leave something lasting in the world: a table, a house, a book, a car, a rug, a high precision piece of engineering with which we can order the days into time, or keep a body breathing. Which of the following statements can be BEST concluded from the passage?

- A Labour enables us to survive while work makes survival meaningful
- B Doing what is asked of a role is labour, while going beyond the role is work
- C Unacknowledged work is labour, while acknowledgement makes it work
- D To be healthy needs labour, while making others healthy is work
- E Terrace gardening is labour, while producing a vaccine is work

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Decision Making

Instructions [27 - 29]

Read the following scenario and answer the THREE questions that follow.

Comprehension:

Raghubir, a reputed doctor, practices medicine in a tier-three city. He owns an imported SUV which he bought 10 years ago, using his hard-earned savings of nearly 5 years. Initially, he used to take it for long rides, but for the last 6-7 years, he only commutes to his clinic, a 10-minute drive from his home.

The SUV has been his proud possession but it demands high maintenance. Also, the diesel-guzzling SUV does not comply with the new emission norms being introduced in the tier-one and tier-two cities. Of late, a few newspapers reported that the new emission norms may be introduced in tier-three cities as well. This news has worried Raghubir.

27. Raghubir is afraid that once the new emission norms are rolled out, he might not be able to use his SUV anymore.

Which of the following options will BEST put Raghubir at ease with using his SUV for some more time?

- A His mechanic assures him that the new norms will not be introduced anytime soon
- B His lawyer friends in his city recently bought non-compliant SUVs from tier-two cities
- C His city has many other SUVs which are as old as his
- D As a sought-after doctor, all the law enforcement officials are his patients
- E Non-compliant SUVs are still plying in tier-two cities

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28. Anya, Raghubir's daughter, works in a metro city. She is concerned about private transport emissions and is unhappy with her father's diesel-guzzling SUV. Though she wants her father to be more environmentally responsible, she is aware that any drastic suggestion might attract strong resistance. Hence, she wants a solution, acceptable to Raghubir, that gently dissuades him from using his SUV on a daily basis.

Which of the following actions by Anya will BEST dissuade Raghubir from using his SUV on a daily basis?

- A Request Raghubir to use public transport for his daily commute, and use the SUV sparingly
- B Ask his mechanic to explore if the SUV can be retrofitted with a CNG kit
- C Take away Raghubir's SUV to the metro city and gift him a new SUV
- D Gift Raghubir a small petrol car and convince him to sell his SUV
- E Ask Raghubir's secretary to ferry him to the clinic daily in her car, except for the weekends

29. The new emission norms are about to get implemented in tier-three cities, and Raghubir's city will follow suit shortly. Hence, Raghubir starts exploring options of buying an electric vehicle (EV). He lists the following factors that will guide him on buying an electric car:

P. EVs within Raghubir's budget can cover his daily commute, but not the long rides.

Q. A new electric SUV in the market, within his budget, nearly has the same look and feel of his present SUV.

R. EVs cannot be driven beyond a speed of 70 kmph.

S. New charging stations on the main highway, connecting his city to the closest metro city, may come up in another year.

T. The only shop, selling EVs in his city, is ready to trade in Raghubir's SUV at a reasonable price.

The above listed factors have been arranged in a DECREASING order of influence in the options given below. Which of the following options will BEST help Raghubir buy an electric vehicle immediately?

- A TQRPS
- B QRTPS
- C QTPSR
- D TQRSP
- E SPTQR

Instructions [30 - 32]

Read the following scenario and answer the THREE questions that follow.

Comprehension:

Future Leaders is one of the most prestigious private schools in a small town, next to an industrial hub. Most of its students come from affluent families, but there are some who belong to middle-income and lower-middle-income families as well. The school charges an annual fee of ₹2 lakhs, inclusive of all charges, payable at the beginning of the academic year. Roughly 20% of the fees collected goes into paying the salaries of the teachers, another 30% for the upkeep of the school, and roughly 20% for miscellaneous expenses in running day-to-day businesses like supply, cleaning etc. The remaining goes into an exigency corpus.

This year, like the rest of the country, the town has been hit by the coronavirus pandemic. The classes have been shifted online. The local authorities have mandated that all schools have to reduce their fees by 20%. Further, parents should be given extended time to pay the fees if they are in financial distress. Six months into the academic year, only 40% of the parents have paid even the reduced annual fees.

30. Ajay Biswas, the rector of the school, is alarmed by the shortfall in fee payments and wants to find the best solution to manage the situation. He does not want to trouble parents who might be genuinely in financial distress, but feels that there may be a possibility that many parents are taking advantage of the situation. Which of the following actions by the school will BEST make financially capable parents pay the fees?

- A Call parents every three days, requesting them to pay the fees and help their school out
- B Share through local newspapers that the school is facing financial crunch and may have to close down if parents don't pay fees

- C Offer 10% and 5% discounts to parents paying fees within the next one week and two weeks respectively
- D Give a 10% bonus marks to all those students who have paid the fees
- E Ask parents to submit a proof of financial distress within two weeks, failing which can bar their wards from attending classes

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31. The board of trustees of the school is concerned about the current financial situation and has called Biswas for a meeting. The trustees have thought of the following actions, as listed below, to improve the school finances immediately:

- P. Appeal to the local industrialists to donate to the school
 - Q. Withhold 20% of teachers' salary till the situation improves
 - R. Ask parents to pay up within a week or show a proof of financial distress
 - S. Stop online classes for a week to signal the desperate financial crunch
 - T. Start an extra section in every class and offer admission to whoever is willing to pay fees
- Biswas is tasked to find the most feasible way of alleviating the financial crunch immediately.

Which of the following combinations of the above-listed actions, in a DECREASING order of preference, will BEST help Biswas in achieving his goal?

- A PRSQT
- B TSRPQ
- C QRSPT
- D PSTRQ
- E RSQTP

32. Teachers of Future Leaders contribute to its stellar reputation. Moreover, they assist the school in arriving at several critical decisions. Biswas resents their involvement in school matters as he has to listen to their collective voice rather than the other way around.

Biswas feels that the current situation offers him an opportunity to get back at the teachers. He wants to discuss the possibility of reducing teachers' salaries by 20% with the board of trustees.

Which of the following, if true, will BEST enable Biswas to present his case for reducing teachers' salaries?

- A Two other well-known private schools in the city, struggling to survive, have resorted to a pay cut
- B Future Leaders pays higher salaries to its teachers in comparison to the other schools in the city.
- C Most of the teachers are alumni of the school, and hence, should be asked to give back to the school through a pay cut
- D 30% of the most experienced teachers may resign if there is a pay cut
- E Teachers' salaries are a significant part of the school's operating cost

Instructions [33 - 35]

Read the following scenario and answer the THREE questions that follow.

Comprehension:

Fundamental Research in Science for Corporate Applications (FuRSCA) is an R&D unit of a Public Sector Undertaking (PSU). FuRSCA's employees are research scientists who assist the Public Sector Undertaking through their R&D. Given the far-reaching implications of its research, FuRSCA was established as a separate entity near the factory of the PSU. FuRSCA has three levels of hierarchy viz.: junior, senior and chief scientists

and all of them reside on the campus. Hence, every scientist, regardless of hierarchy, resides in a house that is similar in all aspects. Though the scientists are entitled to a house rent allowance (HRA), given the distance of FuRSCA from the city, housing them on the campus makes sense.

The new recruits are provided a transit accommodation in the institute's studio apartments, until vacant houses are available. For these recruits, a queue has been created on the basis of their date of joining and not on hierarchy, with the most recent recruit going to the last in the queue. Execution of this policy is the responsibility of the FuRSCA Chief Administrative Officer (CAO), who reports to the Director of FuRSCA.

33. Harsh Kohli resides in house no. 324. Since long, Harsh wants to move from a 3 series house to a 2 series house because his mother-in-law, a chief scientist, lives alone in house no. 225. A few years back, Harsh formally requested the CAO to allow him to move to a 2 series house whenever available. Recently, when house no. 224 becomes vacant, Harsh appeals to the CAO for that house, citing his earlier request. Currently, there are five scientists waiting in the queue and Sauf Tangud is on the top of the queue. From the following options, choose the BEST action to be taken by the CAO without violating the existing housing policy.

- A Allot house no. 224 to Sauf, asking Harsh to negotiate a possible swap with Sauf
- B Ask Harsh to join the queue because scientists in the queue should be given priority
- C Ignore Harsh's request since it violates the housing policy
- D Ask Harsh to move to the house no. 224 immediately, and allocate Harsh's house to Sauf
- E Create a separate queue for extant residents and give them the first right to refuse

XAT Score Vs Percentile

34. Rawng Regrud joins FuRSCA recently and is placed third in the housing queue. He has been temporarily housed in a studio apartment. Given that the studio apartment is too small, he requests his sister to take care of their ailing parents while he awaits a regular house allotment. As months pass, his sister finds it difficult to accommodate her parents along with her in-laws. She requests Rawng to accommodate them with his family. Since he is third in the queue, he may not get a house allotted in the near future. He approaches the CAO with a request to be moved up the queue on humanitarian grounds. Which of the following responses by the CAO shall be perceived as the MOST appropriate by all the stakeholders?

- A Ask Rawng to meet with the director of FuRSCA and present his case to get an exception
- B Ask Rawng to negotiate and arrive at a consensus with the two scientists ahead in the queue which the CAO shall implement
- C Inform Rawng that nothing can be done since violation of rules will set a wrong precedence
- D Facilitate Rawng in getting a house in the city, along with a free commutation for the first three months
- E Move Rawng to the top of the queue, and make a rule that scientists with ailing parents shall be given preference

35. Of late, the CAO has received several requests from the residents of 3 series houses to move to other series houses. The CAO is aware that this is largely because of their own noisy factory nearby. Due to limited housing available on the campus, he must do something before the problem worsens. He wants to find a solution that makes the lives of 3 series residents more comfortable. Which of the following actions can BEST help the CAO in achieving his goal?

- A Provide 3 series residents with a hardship allowance of 15% of basic salary

- B Offer a higher HRA to 3 series residents, nudging them to move to the city
- C Introduce a policy of accelerated promotion for junior scientists living in 3 series quarters
- D Appeal to the top management to make the factory work for only five days a week
- E Install expensive sound proof windows in the 3 series quarters

Instructions [36 - 38]

Read the following scenario and answer the THREE questions that follow.

Comprehension:

Korkai is a serene village, nestled in a small island, separated from the mainland by a strait— the world forgot to name. Its inhabitants are mostly fishermen; a few are cattle-grazers too. A boat ride across the strait is the only mode of transport to the mainland. Budugu, the boatman, ferries people, cattle, and bicycles across the strait in his boat for a living. The remoteness and the lack of connection to the mainland has served him well. He has a family of five. His two daughters are away studying in a city college and dream of corporate jobs in the cities. His ailing mother and wife complete his family. Budugu sent his daughters to study in the city as there is only one school in Korkai, run by an NGO. The NGO prepares the village kids for higher studies. For those who cannot go to cities, the NGO teaches them about the virtues of the local way of life. Budugu is a member of the village Panchayat that runs the village administration. At Korkai, hardly anyone remembers the local MLA or MP. Interestingly, the local MLA visited last week, and informed the islanders of major changes planned for the region: urgent construction of a bridge connecting the island to the mainland, and real estate development. She announced that the island will become a well-known eco-tourism destination in the state. She stressed that the local livelihood, dependent on fortunes at the sea, might enjoy the certainty in minimum wages, meted out by the eco-resort owners. Nevertheless, some villagers fear that the bridge will irreversibly change their lives and livelihoods.

- 36.** Budugu fears that the proposed bridge will leave him jobless, and is determined to do something about it. He wants to gather effective support in order to get the construction of the proposed bridge delayed. Which of the following will be the MOST feasible option for Budugu to gather effective support?
- A Form a boat rowers' association and sit on a hunger strike to protest the proposed bridge
 - B Inform the environmental experts in the nearby cities that the strait is home to rare fish, frogs and turtles
 - C Suspend his boat services till the villagers start supporting his cause
 - D Partner with the local NGO and campaign that the developments will ruin the local way of life
 - E Get a resolution passed by the Panchayat that the bridge will ruin the local way of life

XAT Score Calculator

- 37.** The local MLA is worried about the resistance to the project. This project, like her other successful projects in nearby villages, was supposed to garner a significant amount of funding. Moreover, it would make her the face of development in the state; perhaps, even would land her a ministerial berth. However, Budugu's activism has cast the project in a bad light among the popular minds. The MLA wants to protect her pro-development image.

Which of the following is the BEST course of action for the MLA?

- A Create a fishermen and boat rowers' cooperative in the island and donate generously to it
- B Invite the village Panchayat for a discussion on a possible compromise solution
- C Appoint a task force to find alternative land nearby for the project

D Discredit Budugu in a public meeting by announcing that he is putting his interests over and above the village development

E Publicise widely that the project will improve the socio-economic condition of the island

38. As the project gets delayed, Budugu becomes a well-known social activist with a lot of followers. When Pragati, his elder daughter, finishes her education and starts looking for employment, a few known corporates refuse her a job because of her father's "anti-development" stand.

Which of the following options BEST communicates to the corporates that Pragati has an identity of her own?

A Start a blog and update it regularly with views on current affairs

B Discuss in a social media post why she supports the proposed development in her island village

C Showcase on social media the accolades and awards she received in her college

D Stop using her last name in her job applications

E Go all out on social media to explain how her father's activism is misconstrued by certain corporates

Instructions [39 - 41]

Read the following scenario and answer the THREE questions that follow.

Comprehension:

Dileep Dosan sells dosas in front of an upscale hospital at a city in Punjab. He only sells two varieties of dosas: plain for ₹25 and masala for ₹40.

His dosa stall is popular amongst the hospital staff members, who mostly hail from South India and form his core clientele. They frequently visit his stall during office hours as they find his dosas to be reasonably priced. Though the hospital staff members can visit the upscale food court on the top floor of the hospital, they prefer his stall for breakfast and lunch, and even for occasional evening snacks. His daily sale volume varies between 300 and 400 dosas, in which the demand for masala dosas is around 50-60%.

39. One day, Dileep, while walking through the hospital food court, sees a vacant spot. He wonders if he can shift his stall to that spot.

Which of the following information will dissuade him the MOST from shifting his stall to the food court?

A The food court closes by 10:30 pm, though his current stall is open till midnight.

B The food court has no other stall selling dosas.

C The food court sees a daily foot fall of about 5000 people.

D All the restaurants in the food court, except the fast-food stalls, sell North Indian meal during lunch time.

E On enquiry, he learnt that the cheapest dish in the food court is priced at ₹200.

XAT Crash course

40. Dileep shifts his stall to the hospital food court. He prices his plain dosa at ₹40 and masala dosa at ₹60. However, two months on, he is serving only about 150 dosas per day. The clientele is mostly the same hospital staff members, who had been his customers before he moved to the food court.

Which of the following actions will BEST help Dileep in increasing his sales?

A Reduce price by 20% for hospital staff, and increase the price by 50% for others

- B Introduce a South Indian meal, exclusively for the hospital staff members at a discounted rate of ₹40 per plate
- C Increase prices of all the food items by 50% and introduce a new Shezwan dosa at ₹200 a plate
- D Add more varieties of dosas at higher price points, and reduce plain and masala dosaprices to ₹25 and ₹40 respectively
- E Introduce a North Indian meal, and give a discount of 20% to the hospital staff members

41. On the first anniversary of his stall at the food court, Dileep reviews his customer base. Almost all of his customers are the hospital staff members. Though he wishes to serve the general visitors at the hospital, they avoid his stall. On enquiring, he discovers that visitors generally avoid his stall because it is majorly frequented by the hospital staff members, giving it a feel of a staff canteen.

Dileep realizes his best efforts have not given him any extra sales and the visitors can potentially increase his revenue by a considerable amount.

Which of the following options can BEST help Dileep in discouraging hospital staff members from visiting his stall while increasing his overall revenue?

- A Charge the hospital staff members a premium to offset the losses due to their presence
- B Request the hospital management to prohibit hospital staff from entering the food court
- C Introduce a massive discount on price for the next two months to increase the footfall
- D Appeal to the hospital management to give a space in the staff room where an exclusive dosa counter can be set up by Dileep
- E Provide a discount to those hospital staff members who order on phone, and deliver food in their staffroom

Instructions [42 - 44]

Read the following scenario and answer the THREE questions that follow.

Comprehension:

A2Z is a state-funded leading engineering college in the country, renowned for its teaching and placements. Now, A2Z aspires to be a global leader in research as well. A2Z has, therefore, decided to push for better quality research from its newly recruited faculty members. In the past, a few faculty members were confirmed because of their exceptional teaching feedback even though their research output was below par. Currently, the Dean, in consultation with the academic council, has included the quality of research as a mandatory requirement along with teaching excellence for the confirmation of the newly recruited faculty members. (The academic council comprises of the senior faculty members from different departments.)

Initially, newly recruited faculty members are put on probation for three years. Either they are confirmed or their probation is extended or their services are terminated, based on teaching and research contributions. Once confirmed, their job is secure along with other additional perquisites.

Aparna joined the social sciences department of A2Z two years back. She is amongst the many faculty members, recruited after the new norms for confirmation were introduced. She completed her doctorate from a reputed university in the USA, with a significant research contributions. However, after joining A2Z, Aparna got deeply involved in social outreach as COVID-19 was spreading. Though her social outreach has given her immense satisfaction, she has nothing to show against research contributions; further, it has impacted her teaching effectiveness. Her confirmation is due in a year.

42. The Dean, during the annual appraisal of Aparna, realizes that her research contribution needs considerable investment of time and efforts. He is concerned that her performance could set a wrong precedent for the new faculty recruits. The dean wants to communicate to the new faculty recruits that research contribution

is critical.

Which of the following actions will BEST help the Dean in achieving the objective, while being fair to Aparna?

- A Appreciate Aparna's social outreach, but advise her to focus on research and teaching contributions as they are essential for confirmation
- B Extend Aparna's probation period by an additional year, while reminding her about the research and teaching contributions needed for confirmation
- C Increase her teaching and research requirements, while extending her probation period by two years
- D Exhort Aparna to suspend her social outreach activities till the end of her probation, and to focus on research and teaching instead
- E Suggest Aparna to start looking for a new job in the time available to her

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43. One year on, Aparna continues with her social work. Gradually, she gets closer to the end of her probation and she has not much to show against her teaching and research contributions. However, her social work has been widely appreciated by the local media. The Chief Minister of the state wants Aparna to take a larger role in social outreach and assist the government.

The Dean is afraid that not confirming Aparna might prompt her to leave the institution, sending a wrong signal to the outside world. However, he also wants to send a message to the newly joined faculty members that teaching and research contributions are essential for confirmation.

Which of the following actions by the Dean is the MOST sustainable given the circumstances?

- A Confirm Aparna, but freeze her increments and promotions until her research contributions are as per the expected standards
- B Offer Aparna a five-year contractual position after which she has to leave irrespective of her contributions
- C Declare that Aparna's extraordinary achievement deserves to be treated exceptionally, and confirm her
- D Extend Aparna's probation by three years, and tell her that she would have to leave if her research and teaching do not improve in that period
- E Offer to create a non-teaching position of outreach officer for Aparna, but terminate her from the teaching position

44. A few months later, Aparna, during an interview with the local media, inadvertently expresses her fear that she might be let go by A2Z because she has not met its teaching and research requirements. Consequently, the academic council urges the dean to review the faculty confirmation policy.

The Dean, however, believes that any change in the policy will be a setback to the institute's aspirations of becoming a global leader in research.

Which of the following actions by the Dean will be the MOST appropriate, given the circumstances?

- A Give an interview to a local newspaper and share Aparna's lack of research and poor teaching feedback
- B Confirm Aparna, but ask her to issue a public statement, acknowledging the importance A2Z gives to research contributions
- C Convey to Aparna that the institute is eager to retain her; however, emphasize that she should focus on research to get confirmed
- D Tell Aparna that she is being let go for insulting the college on a public platform

- E** Confirm Aparna, but make it clear that her future promotions will be tied to her research contribution and teaching feedback

Instructions [45 - 47]

Read the following scenario and answer the THREE questions that follow.

Comprehension:

Sundaresan was a professor of Corporate Responsibility at a premium management institution. As a requirement of his course, students had to synthesize sustainability challenges, faced by thermal power companies and submit an assignment on them. Though it was an individual assignment, some students sought permission from Sundaresan to work on the assignment as a team. Sundaresan knew that collaboration fosters peer learning, and therefore, allowed them to work in teams. However, he mandated that a team should not exceed three members. While 15 students elected to work individually, another 15 formed teams of three each, and another 10 formed teams of two members each.

45. As assignment deadline came closer, Sundaresan was approached by Abbas Warram, who chose to work in a team of three members. He informed Sundaresan that Venkamma, his team member, distressed by the death of her grandmother, could not work on her bit of the assignment. Abbas requested for a deadline extension so that she could finish her part of the assignment. By then, many students who were working alone had already submitted their assignments.

Which of the following actions by Sundaresan is the MOST appropriate, given the circumstances?

- A** Give extra time to Venkamma to work individually and ask the other two to stick to the original deadline as a team
- B** Extend the deadline for the team while imposing a one-grade penalty for the deadline extension
- C** Warn Abbas that such issues should not be flagged to the professor and should be handled within the team
- D** Give the students a deadline extension, but add an extra assignment for the team as a new requirement
- E** Disband the team and ask each student to work individually

XAT Previous Papers

46. When Sundaresan was about to grade the assignments, he received a request from the class representative regarding the students who worked individually. The request was to give those students additional marks because they handled the entire workload. This would improve their course grade significantly.

Which of the following is the MOST appropriate action by Sundaresan to mark the assignments?

- A** Reduce marks for those who worked in teams by 10%
- B** Divide the total marks awarded to a team by the number of team members
- C** Give 10% extra marks to all those who worked individually
- D** Convert the assignment into a non-graded assignment because both the individuals and the teams worked on the same assignment
- E** Treat both individual work and team work equally

47. Sundaresan was going through the submitted assignments. Team 9, with three members, had impressive exhibits and charts. Later, he discovered that Team 13, with three members, also had the same exhibits and charts. He realized that one of the teams had copied from the other. Hence, he informed both the teams that he would award an F-grade (fail grade) to both the teams for copying.

Later that evening, Aashi from Team 9 called and admitted to sharing exhibits and charts with Aanvi of Team 13. Further, she mentioned that Aanvi could not put enough efforts since she lost significant amount

of time due to COVID-19. Therefore, Aanvi requested for help. However, Aanvi assured Aashi that she would not reproduce the shared content. Aashi requested Sundaresan to punish her and Aanvi and spare others as they were not involved.

Which of the following actions by Sundaresan is the MOST appropriate?

- A Ask both the teams to work on an extra assignment to avoid an F-grade.
- B Award an F-grade to both Aashi and Aanvi, and spare others
- C Spare both the teams as such a confession is rare
- D Punish Aanvi with an F-grade and spare others
- E Punish both the teams by giving F-grades

XAT 1-month preparation video

Quant

48. A supplier receives orders from 5 different buyers. Each buyer places their order only on a Monday. The first buyer places the order after every 2 weeks, the second buyer, after every 6 weeks, the third buyer, after every 8 weeks, the fourth buyer, every 4 weeks, and the fifth buyer, after every 3 weeks. It is known that on January 1st, which was a Monday, each of these five buyers placed an order with the supplier.

On how many occasions, in the same year, will these buyers place their orders together excluding the order placed on January 1st?

- A 1
- B 5
- C 2
- D 4
- E 3

XAT Decision Making Mock Tests

49. Some members of a social service organization in Kolkata decide to prepare 2400 laddoos to gift to children in various orphanages and slums in the city, during Durga puja. The plan is that each of them makes the same number of laddoos. However, on the laddoo-making day, ten members are absent, thus each remaining member makes 12 laddoos more than earlier decided.

How many members actually make the laddoos?

- A 100
- B 50
- C 90
- D 24
- E 40

50. Ramesh and Reena are playing with triangle ABC. Ramesh draws a line that bisects $\angle BAC$; this line cuts BC at D. Reena then extends AD to a point P. In response, Ramesh joins B and P. Reena then announces that BD bisects $\angle PBA$, hat a surprise! Together, Ramesh and Reena find that BD= 6 cm, AC= 9 cm, DC= 5 cm,

BP=8 cm, and DP = 5 cm.

How long is AP?

- A 11.5 cm
- B 11.75 cm
- C 10.5 cm
- D 11 cm
- E 10.75 cm

51. Sheela purchases two varieties of apples - A and B - for a total of Rupees 2800. The weights in kg of A and B purchased by Sheela are in the ratio 5 : 8 but the cost per kg of A is 20% more than that of B. Sheela sells A and B with profits of 15% and 10% respectively.

What is the overall profit in Rupees?

- A 340
- B 600
- C 240
- D 480
- E 380

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52. A marble is dropped from a height of 3 metres onto the ground. After hitting the ground, it bounces and reaches 80% of the height from which it was dropped. This repeats multiple times. Each time it bounces, the marble reaches 80% of the height previously reached. Eventually, the marble comes to rest on the ground.

What is the maximum distance that the marble travels from the time it was dropped until it comes to rest?

- A 15 m
- B 27 m
- C 24 m
- D 12 m
- E 30 m

53. The sum of the cubes of two numbers is 128, while the sum of the reciprocals of their cubes is 2.

What is the product of the squares of the numbers?

- A 64
- B 256
- C 16
- D 48

54. Nadeem's age is a two-digit number X , squaring which yields a three-digit number, whose last digit is Y . Consider the statements below:
Statement I: Y is a prime number
Statement II: Y is one-third of X

To determine Nadeem's age uniquely:

- A either of I and II, by itself, is sufficient.
- B only II is sufficient, but I is not.
- C only I is sufficient, but II is not.
- D it is necessary and sufficient to take I and II together.
- E even taking I and II together is not sufficient.

XAT Decision Making Free Video

55. A tall tower has its base at point K . Three points A , B and C are located at distances of 4 metres, 8 metres and 16 metres respectively from K . The angles of elevation of the top of the tower from A and C are complementary.

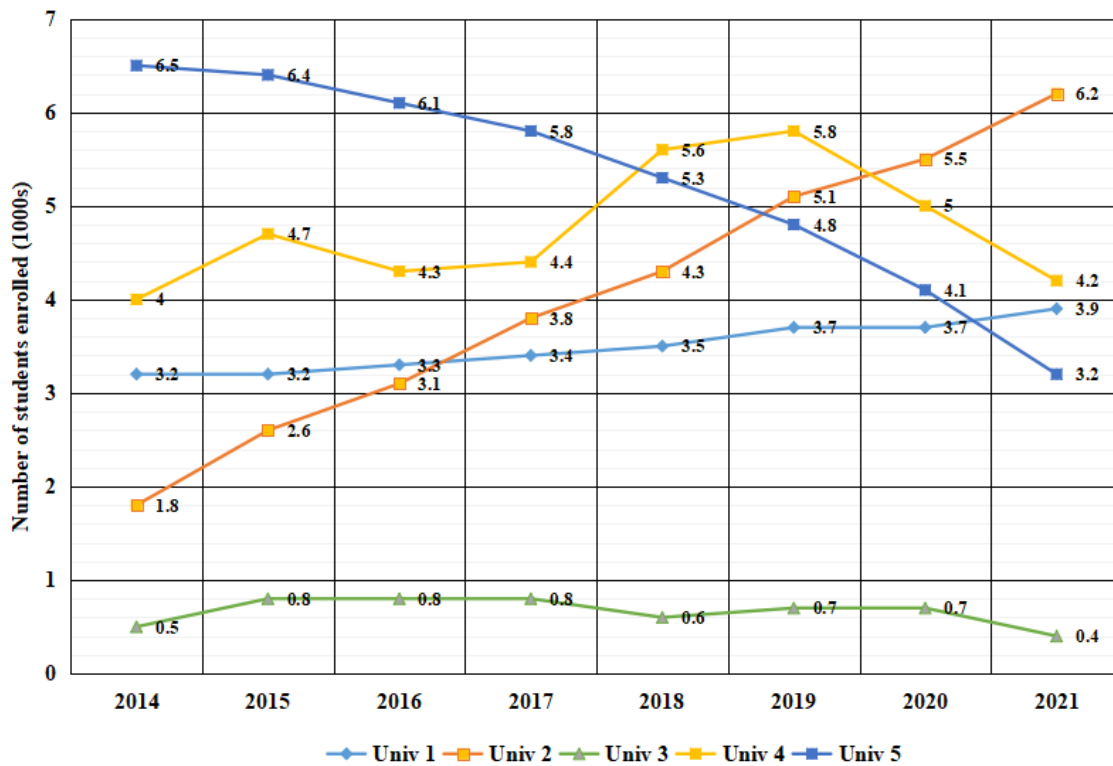
What is the angle of elevation (in degrees) of the tower's top from B ?

- A 60
- B 30
- C 45
- D We need more information to solve this.
- E 15

Instructions [56 - 58]

Read the following scenario and answer the THREE questions that follow.

The enrolment of students (in 1000s) at each of the five universities named — MPU, JSU, LTU, PKU and TRU — during each of the eight years from 2014 to 2021 is represented in the following chart. The names of these universities are not shown in the chart, Stead they are labelled Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5.



However, these four pieces of information are available:

W: The magnitudes of TRU's and MPU's net change in enrolment between 2014 and 2021 are the closest among any two universities.

X: LTU had the same enrolment in consecutive years at least twice between 2014 and 2021.

Y: The increase in JSU's enrolment from 2015 to 2019 is about 50% of TRU's total enrolment in 2020.

Z: The enrolment in one of LTU and PKU had a steady decline between 2014 and 2021, while the enrolment in the other had no decline between any two consecutive years in the same period.

56. Which of the five universities can Univ 4 possibly be?

- A Either TRU or MPU
- B Either MPU or PKU
- C Only PKU
- D Only TRU
- E Only MPU

57. Which Univ's enrolment was around twice that of LTU in 2014?

- A Only JSU's
- B Only PKU's
- C Either PKU's or TRU's
- D Either JSU's or MPU's
- E Only MPU's

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58. Which amongst the pieces of information mentioned below, if removed, will not prevent us from uniquely identifying the five universities?

- A Either X or Y
- B Y
- C Z
- D NONE, since all four pieces of information are necessary to uniquely identify the five universities.
- E X

Instructions [59 - 61]

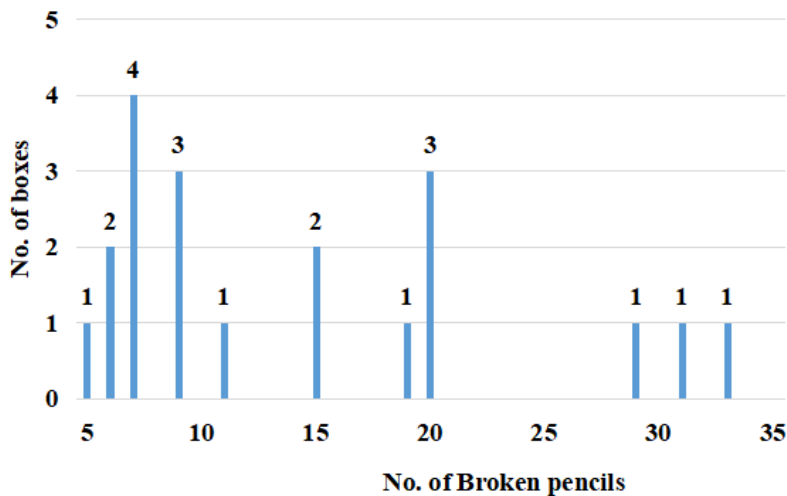
Read the following scenario and answer the THREE questions that follow.

A pencil maker ships pencils in boxes of size 50, 100 and 200. Due to packaging issues, some pencils break. About the 20 boxes he has supplied to a shop, the following information is available:

* Box no. 1 through 6 have 50 pencils, Box no. 7 through 16 have 100 pencils and Box no. 17 through 20 have 200 pencils.

* No box has less than 5% or more than 20% broken pencils.

Following is the frequency table of the number of broken pencils for the twenty boxes:



59. Which of the following can possibly be the sequence of the number of broken pencils in Boxes 7-16?

- A 6,7,9, 11,15,19,20,20,20,29
- B 5,6,6,6,11,15,15,20,20,20
- C 7,7,7,7,11,15,15,19,20,20
- D 7,7,9,9,11,13,15,19,20,20
- E 5,7,7,7,9,11,15,20,20,20

60. Which of the following cannot be inferred conclusively from the given information?

- A No box numbered 1-6 has more broken pencils than any box numbered 17-20.
- B A box with the highest percentage of broken pencils has 100 pencils.
- C Four among the boxes numbered 7 to 16 have less than 10 broken pencils.
- D Exactly three boxes have 20% broken pencils.
- E Three among the boxes numbered 17 to 20 have 29, 31 and 33 broken pencils in some order.

61. Suppose that additionally it is known that the number of broken pencils in Boxes 17-20 are in increasing order. Which among the following additional information, if true, is not sufficient to uniquely know the number of defective pencils in each of the boxes numbered 17-20?

- A** Boxes no. 7-16 contains a total of 124 defective pencils.
- B** Boxes no. 17-20 contain a total of 108 defective pencils.
- C** Boxes no. 11-16 contain a total of 101 defective pencils.
- D** Box no. 17 contains more defective pencils than any box from among boxes no. 1-14.
- E** Boxes no. 7-16 contain a total of 133 defective pencils.

Instructions [62 - 64]

Read the following scenario and answer the THREE questions that follow.

An examination had ten multiple choice questions; labelled Q1 to Q10 respectively. Each question had four answer options – A, B, C and D – of which one and only one was the correct answer. For each correct answer, the candidate obtained 1 mark. There were no negative marks for wrong answers. The answers chosen by six candidates named Om, Pavan, Qadir, Rakesh, Simranjeet and Tracey to each of the ten questions and the total marks obtained by each of them are shown in the table.

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total Marks
Om	D	B	C	B	C	C	B	C	A	C	2
Pavan	D	B	A	B	B	D	A	C	B	D	5
Qadir	A	A	A	C	C	D	B	D	D	A	7
Rakesh	A	C	D	A	B	C	A	C	B	C	3
Simranjeet	D	B	A	B	C	C	A	D	B	A	7
Tracey	A	C	B	B	B	D	B	C	D	C	2

62. What is the correct answer for Q5?

- A** Not possible to determine uniquely
- B** A
- C** B
- D** C
- E** D

63. For which of these questions is D the correct answer?

- A** Both Q1 and Q9
- B** Both Q1 and Q8
- C** Q8
- D** Q1
- E** Q9

64. Which of these questions witnessed the least number of the students answering correctly?

- A Both Q3 and Q4
- B Q4
- C Q5
- D Q10
- E Q2

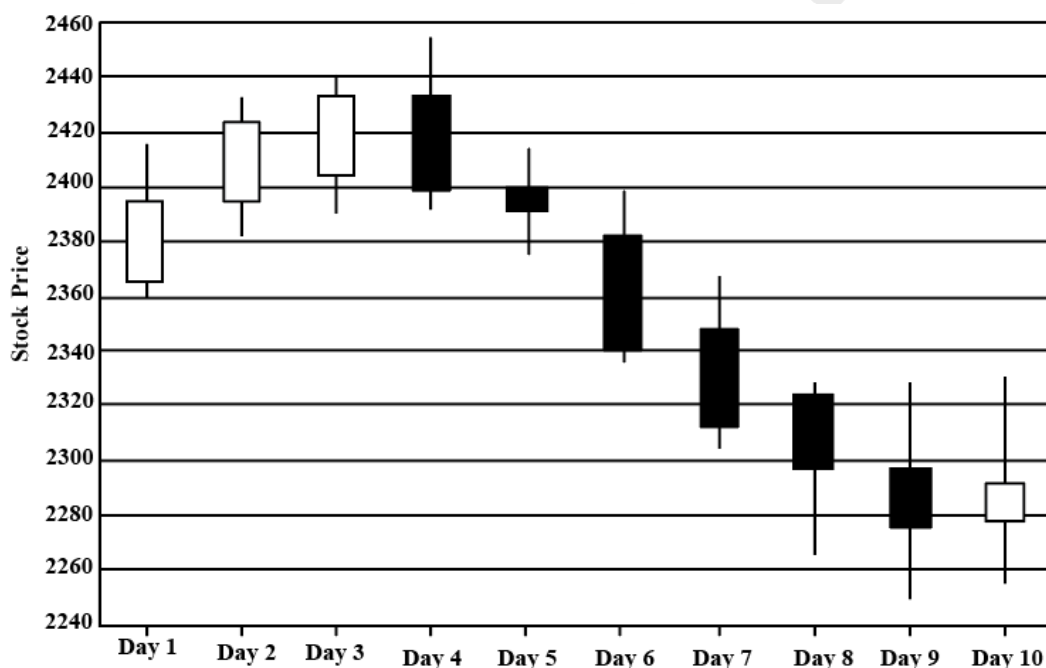
65. Shireen draws a circle in her courtyard. She then measures the circle's circumference and its diameter with her measuring tape and records them as two integers, A and B respectively. She finds that A and B are coprimes, that is, their greatest common divisor is 1. She also finds their ratio, A:B, to be: 3.141614161416... (repeating endlessly).

What is $A - B$?

- A 21414
- B 7138
- C 21417
- D 21413
- E 15

Instructions [66 - 68]

Read the following scenario and answer the THREE questions that follow.



The given candlestick chart depicts the prices of a particular stock over 10 consecutive days. A candlestick comprises of a rectangular box pieced by a line. The top and bottom ends of the line respectively indicate the maximum and minimum prices of the stock on that day, while the horizontal edges of the rectangle correspond to the stock's opening and closing prices. If the rectangle is white, the opening price is lower than the closing price, but if the rectangle is black, then it is the other way around.

Using the above information, answer the questions that follow:

66. Which day saw the maximum percentage increase in the stock price at closing from the opening?

- A Day 10
- B Day 2
- C Day 1
- D Day 6
- E Day 7

XAT Preparation Tips

67. What is the highest magnitude of change over two consecutive days (for example, Day 1 → Day 3 or Day 5 → Day 7), in the maximum price touched by the stock during the 10-day period (choose the closest amongst the options given)?

- A 60
- B 70
- C 80
- D 50
- E 40

68. On which day is the ratio of the maximum price to the opening price, the highest across the ten days?

- A Day 3
- B Day 4
- C Day 10
- D Day 1
- E Day 9

69. Wilma, Xavier, Yaska and Zakir are four young friends, who have a passion for integers. One day, each of them selects one integer and writes it on a wall. The writing on the wall shows that Xavier and Zakir picked positive integers, Yaska picked a negative one, while Wilma's integer is either negative, zero or positive. If their integers are denoted by the first letters of their respective names, the following is true:

$$W^4 + X^3 + Y^2 + Z \leq 4$$

$$X^3 + Z \geq 2$$

$$W^4 + Y^2 \leq 2$$

$$Y^2 + Z \geq 3$$

Given the above, which of these can $W^2 + X^2 + Y^2 + Z^2$ possibly evaluate to?

- A 9
- B 0
- C 4

D 6

E 1

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70. If both the sequences x, a_1, a_2, y and x, b_1, b_2, z are in A.P. and it is given that $y > x$ and $z < x$, then which of the following values can $\left\{ \frac{(a_1 - a_2)}{(b_1 - b_2)} \right\}$ possibly take?

A 2

B 5

C -3

D 1

E 0

71. Kim's wristwatch always shows the correct time, including 'am' and 'pm'. Jim's watch is identical to Kim's watch in all aspects except its pace, which is slower than the pace of Kim's watch. At 12 noon on January 1st, Jim sets his watch to the correct time, but an hour later, it shows 12:57 pm. At 12 noon on the next June 1st, Jim resets his watch to the correct time.

On how many instances between, and including 12 noon on the two dates mentioned, do Jim's and Kim's watches show the exact same time, including the 'am' and the 'pm'?

A 10

B 7

C 15

D 9

E 17

72. Fatima found that the profit earned by the Bala dosa stall today is a three-digit number. She also noticed that the middle digit is half of the leftmost digit, while the rightmost digit is three times the middle digit. She then randomly interchanged the digits and obtained a different number. This number was more than the original number by 198.

What was the middle digit of the profit amount?

A 1

B 2

C 6

D This cannot be solved with only the given information

E 8

XAT Score Vs Percentile

73. I have five 10-rupee notes, three 20-rupee notes, and two 50-rupee notes in my wallet.

If three notes were taken out randomly and simultaneously, what is the probability that at least 90 rupees were taken out?

- A $\frac{1}{20}$
- B $\frac{7}{60}$
- C $\frac{1}{15}$
- D $\frac{11}{60}$
- E $\frac{3}{20}$

74. The Madhura Fruits Company is packing four types of fruits into boxes. There are 126 oranges, 162 apples, 198 guavas and 306 pears. The fruits must be packed in such a way that a given box must have only one type of fruit and must contain the same number of fruit units as any other box.

What is the minimum number of boxes that must be used?

- A 21
- B 18
- C 44
- D 42
- E 36

75. Consider the real-valued function $f(x) = \frac{\log(3x-7)}{\sqrt{2x^2-7x+6}}$. Find the domain of $f(x)$.

- A $(\frac{7}{3}, \infty)$
- B $R - \{\frac{7}{3}\}$
- C $R - \{\frac{3}{2}, 2\}$
- D $R - \{\frac{3}{2}, 2, \frac{7}{3}\}$
- E $(-\infty, \frac{7}{3})$

[XAT Score Calculator](#)

General Knowledge

76. Which of the following 2018 Commonwealth Games Gold medallists has successfully contested the 2020 Bihar Legislative Assembly elections?

- A Shreyashi Singh
- B Heena Sidhu
- C Manika Batra
- D Manu Bhaker
- E Tejaswini Samant

[XAT Crash course](#)

77. What is OSIRIS-REx?

- A It is the moon mission of JAXA
- B It is the last satellite launched by ISRO
- C It is a NASA asteroid-study mission
- D It is the name of the latest launch vehicle of ESA
- E It is a new variant of the novel Coronavirus

78. Match the following UNSECO world heritage sites with the states to which they belong.

UNESCO World Heritage Sites	States
P. Khajuraho Group of Monuments	I. Telangana
Q. Kakatiya Rudreshwara Temple	II. Gujarat
R. Dholavira	III. Karnataka
S. Group of Monuments at Hampi	IV. Sikkim
T. Khangchendzonga National Park	V. Madhya Pradesh

- A P-IV, Q-III, R-V, S-II, T-I
- B P-V, Q-I, R-II, S-III, T-IV
- C P-IV, Q-I, R-V, S-II, T-III
- D P-V, Q-IV, R-I, S-III, T-II
- E P-III, Q-V, R-I, S-II, T-IV

79. Which of the following politicians has served for the longest years consecutively, or otherwise, as the Chief Minister of any Indian state or Union Territory?

- A Naveen Patnaik
- B Jyoti Basu
- C Virbhadra Singh
- D Pawan Kumar Chamling
- E Gegong Apang

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80. Who is the first Field Marshal of independent India?

- A Sam Manekshaw
- B A.S. Vaidya
- C KM Cariappa
- D Bipin Rawat
- E Krishnaswamy Sundarji

81. Which of the following companies has acquired 100% stake in Air India?

- A Tata Group
- B Adani Group
- C Mahindra Group
- D Reliance Industries
- E Aditya Birla Group

82. Which of the following spacecrafts by the NASA entered the Sun's upper atmosphere - the Corona?

- A Luminous Solar Probe
- B Helios Solar Probe
- C Arka Solar Probe
- D Parker Solar Probe
- E James Webb Solar Probe

XAT Previous Papers

83. Which of the following footballing legends had never won the prestigious Ballon d'Or Award?

- A Paolo Maldini
- B Pavel Nedvěd
- C Andriy Shevchenko
- D Ricardo Kaka
- E Luca Modric

84. Which of the following wild animal has the sub-species as Sri Lankan, Indian, Sumatran and Bornean?

- A Spotted Deer (*Axis axis*)
- B Asian Elephant (*Elephas maximus*)
- C Sarus Crane (*Antigone antigone*)
- D Tiger (*Panthera tigris*)
- E Rhinoceros (*Rhinoceros unicornis*)

85. According to the venture capital industry, what is a unicorn?

- A Any start-up that gives a dividend of \$1 billion to its shareholders
- B Any start-up that makes its owner a billionaire
- C Any start-up that raises \$1 billion in venture capital
- D Any start-up that reaches the valuation of \$1 billion

- E Any start-up that reaches to employ 1000 people

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86. Which of the following Indian states does not have an “Indian Institute of Technology (IIT)”?

- A Assam
- B Chhattisgarh
- C Karnataka
- D Haryana
- E Punjab

87. Match the following literary works with their authors.

Literary Works	Authors
P. Mrcchakatika	I. Kalidasa
Q. Mudrarakshasa	II. Shudraka
R. Abhijnanashakuntalam	III. Banabhatta
S. Rasamanjari	IV. Vishakhadatta
T. Harshacharita	V. Krishadevaraya

- A P-III, Q-V, R-I, S-II, T-IV
- B P-II, Q-V, R- I, S-IV, T-III
- C P-V, Q-IV, R-I, S-III, T-II
- D P-II, Q-IV, R-I, S-V, T-III
- E P-V, Q-I, R-III, S-II, T-IV

88. What is the full form of NFT in the context of blockchain?

- A Non-fakable token
- B Non-fungible token
- C Neo-fictitious token
- D Non-fundable tax
- E Non-functional tax

XAT Decision Making Mock Tests

89. From the following options, choose the one which arranges the given Queens’ ascension to the throne in a chronological order.

- A Rudrama Devi, Razia Sultana, Durgavati, Lakshmi Bai, Ahilyabai Holkar
- B Razia Sultana, Rudrama Devi, Durgavati, Ahilyabai Holkar, Lakshmi Bai
- C Razia Sultana, Ahilyabai Holkar, Durgavati, Lakshmi Bai, Rudrama Devi
- D Razia Sultana, Rudrama Devi, Ahilyabai Holkar, Durgavati, Lakshmi Bai

E Ahilyabai Holkar, Durgavati, Razia Sultana, Rudrama Devi, Lakshmi Bai

90. Match the animals listed below with the most common collective noun used to represent a group of them (e.g. wolves - Pack).

Animals	Collective Nouns
P. Eagles	I. Tower
Q. Apes	II. Quiver
R. Giraffes	III. Kaleidoscope
S. Butterflies	IV. Shrewdness
T. Cobras	V. Convocation

A P-II, Q-V, R-I, S-IV, T-III

B P-V, Q-IV, R-I, S-III, T-II

C P-II, Q-IV, R-I, S-V, T-III

D P-V, Q-I, R-III, S-II, T-IV

E P-III, Q-V, R-I, S-II, T-IV

91. Match the following classic movies with their directors.

Movies	Directors
P. Agantuk	I. Adoor Gopalakrishnan
Q. Thaneer Thaneer	II. Shyam Bengal
R. Drohkaal	III. Satyajit Ray
S. Elipaththayam	IV. K Balachander
T. Bhumika	V. Govind Nihalani

A P-V, Q-I, R-II, S-III, T-IV

B P-III, Q-IV, R-V, S-I, T-II

C P-I, Q-IV, R-V, S-II, T-III

D P-IV, Q-V, R-II, S-III, T-I

E P-III, Q-I, R-V, S-IV, T-II

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92. Match the following districts with the states to which they belong.

Districts	States
P. Muktsar	I. Bihar
Q. Rohtas	II. Assam
R. Nanded	III. Tamil Nadu
S. Kamrup	IV. Punjab
T. Salem	V. Maharashtra

A P-IV, Q-III, R-V, S-II, T-I

B P-III, Q-V, R-I, S-II, T-IV

C P-IV, Q-I, R-V, S-II, T-III

D P-II, Q-IV, R-I, S-V, T-III

E P-V, Q-IV, R-I, S-III, T-II

93. What is Zoonosis?

A A disease which can be transmitted to humans from animals

B The study of Oonosis

C A disease which can be transmitted to humans from zoo animals

D A disease which can be transmitted to humans from zygotes

E A state of affairs where human behaviour imitates that of zoo animals

94. Maitri and Bharati are the names of:

A Indian research stations in Arctic

B Indian underwater missions in the North China Sea

C Indian peace missions to Somalia

D Indian diplomatic missions to Iceland

E Indian research stations in Antarctica

[XAT Decision Making Free Video](#)

95. From which location, India test-fired the new generation Agni Prime missile in 2021?

A Vikram Sarabhai Space Centre, Thiruvananthapuram (Thumba), Kerala

B Gan (Addu Atoll), Maldives

C Satish Dhawan Space Centre (Sriharikota), Andhra Pradesh

D APJ Abdul Kalam island, Odisha

E LAPAN Rocket Launcher Station, Pameungpeuk, Garut, Indonesia

96. Identify the XLRI alumnus, who has recently been appointed as the Deputy National Security Advisor?

A Parikshit Gautam

B Parthapriya Ghosh

C Arun Mani Dixit

D S. Sathya Kumar

E Vikram Misri

97. Monosodium glutamate is:

A The reason one cries while peeling onions

- B The name of the company that makes Ajinomoto
- C Found in tomatoes
- D Not found in any fruit or vegetable
- E A misnomer since it does not contain sodium

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98. Match the following books with their authors.

Books	Authors
P. The Fractured Himalaya: India Tibet China 1949-1962	I. Dinayar Patel
Q. False Allies: India's Maharajahs in the Age of Ravi Varma	II. Tamal Bandyopadhyay
R. VP Menon: The Unsung Architect of Modern India	III. Manu S Pillai
S. Pandemonium: The Great Indian Banking Tragedy	IV. Nirupama Menon Rao
T. Naoroji: Pioneer of Indian Nationalism	V. Narayani Basu

- A P-V, Q-IV, R-I, S-III, T-II
- B P-II, Q-V, R- I, S-IV, T-III
- C P-III, Q-V, R-I, S-II, T-IV
- D P-IV, Q-III, R-V, S-II, T-I
- E P-II, Q-IV, R-I, S-V, T-III

99. What is a grey market?

- A The trade of a commodity which is recognized as a counterfeit product
- B The trade of a commodity which is unbranded
- C The trade of a commodity for which the country of origin is not mentioned
- D The trade of a commodity for which the taxes are evaded
- E The trade of a commodity through distribution channels not authorized by the manufacturer

100. What is the Large Hadron Collider (LHC)?

- A The world's largest and most powerful particle accelerator
- B The world's largest and most powerful Aperture Spherical radio telescope
- C The world's largest and most powerful nuclear reactor
- D The world's largest and most powerful water laser gun
- E The world's largest and most powerful electron beam

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Essay

Instructions [101 - 102]

Maximum 250 words.

101. Essay 1

Capitalism and democracy follow different paths: Unequally distributed property rights on the one hand, equal civic and political rights on the other; hierarchical decision making by managers and capital owners versus debate, compromise and majority decision-making within democratic politics. Therefore, they cannot co-exist.

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102. Essay 2

In management, we do not need people who never experienced a setback; such people are highly averse to taking risks. Because, business schools majorly focus on stellar academic achievements during admissions, the selected students often turn into average managers.

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Answers

Verbal Ability & Logical Reasoning

1.B	2.D	3.A	4.E	5.A	6.C	7.B	8.A
9.D	10.C	11.C	12.B	13.C	14.B	15.D	16.C
17.B	18.E	19.C	20.B	21.B	22.A	23.B	24.A
25.C	26.A						

Decision Making

27.B	28.E	29.C	30.E	31.C	32.A	33.D	34.D
35.E	36.E	37.E	38.C	39.E	40.D	41.E	42.A
43.D	44.C	45.C	46.E	47.E			

Quant

48.C	49.E	50.B	51.A	52.B	53.C	54.D	55.C
56.D	57.B	58.C	59.C	60.D	61.E	62.D	63.C
64.B	65.B	66.C	67.B	68.C	69.D	70.C	71.D
72.B	73.B	74.C	75.A				

General Knowledge

76.A	77.C	78.B	79.D	80.A	81.A	82.D	83.A
84.B	85.D	86.D	87.D	88.B	89.B	90.B	91.B
92.C	93.A	94.E	95.D	96.E	97.C	98.D	99.E
100.A							

Essay

101.e	102.e
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Explanations

Verbal Ability & Logical Reasoning

1. B

Sentences 1, 5 and 6 are grammatically correct. The correct statements for 2, 3 and 4 are:

2: I had a pleasant dream last night.

3: I have done it many a time safely.

4: Students struggle to cope with academic pressure.

Answer is option B.

2. D

Option A can be inferred as that poet states that you thought I was other. Option B can also be inferred as love started between the poet and the other person by glancing and smiling only. Option C and E can also be inferred. Option D is wrong as the poet and the other persons clearly falls in love with one another so we cannot say that we don't fall in love with others.

3. A

Among the given options, we can see that only option A fits to given context.

Answer is option A.

4. E

The paragraph talks about how geological events occur in a cycle, and research has found the period of the cycle to be around 27.5million years. It also mentions that mass extinctions occur at this 27.5millions years, too.

From this we can see that geological events and mass extinctions both occur around the same time and thus are correlated to each other. Hence, option E is the answer.

Option A: the passage mentions that mass extinctions happen every 27.5million years, but it is not the main idea of the passage.

Option B: The passage says that the length between pulses is 26.2 and 30.6million years and in general occurs around 27.5million years. Thus, it is not a constant value.

Option C: It is incorrect since the paragraph only talks about mass extinction. Whether all species go extinct or not is not mentioned.

Option D: The passage is talking about geological events occurring in a cycle. Hence, it is incorrect.

5. A

The context of the given paragraph describes that discoveries are unplanned. The words unpredicted and unappreciated are in line with unplanned and are appropriate in the given context. All other adjectives in the given options don't take the idea of unplanned discoveries forward.

Answer is option A.

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6. C

Statements 3, 4 and 6 are incorrect. Correct statements are:

3: I prefer coffee to tea.

4: She was accused of stealing gold.

6: They are leaving for England soon.

Answer is option C.

7. B

5-3-2 forms a logical sequence as the "demand for latter" mentioned in 3 refers to the "coder" mentioned in 5. Sentence 2 mentions the result of this high demand.

The only option that has 5-3-2 as a sequence is B.

Hence, the answer is option B.

8. **A**

2-1-4 forms a logical sequence as the harm mentioned in 2 is explained in 1 and 4.

5-3 forms a logical sequence as the trend mentioned in 3 is referencing the willingness of parents to pay for extra lessons mentioned in 5.

2 is a better opening line than 5 as it introduces the main point discussed in the passage.

Hence, the required sequence is 2-1-4-5-3.

9. **D**

The paragraph talks about how catastrophes result from a chain of events that may be identifiable beforehand.

The author also mentions, with the example of swiss cheese, *"If even one slab doesn't align, the impending catastrophe will meet a layer of resistance, and the worst is averted."* That if any of the events that lead to a disaster meet some resistance, the catastrophe can be averted.

Hence, the answer is option D.

10. **C**

"The result is an inability to make sense of what is happening and a resulting tendency to force phenomena into crude, distorting pigeonholes."

The author underlines our inability to comprehend/understand a problem and the application of known ideas/solutions to address the same - this, according to him, is stupidity. Option C rewords this point - [Pushing our extant solution to fix an alien problem is stupidity]

Option A: [Comprehending a problem by applying our existing worldview is stupidity] The author states that we are unable to comprehend the problem in the first place - the option emphasises that the way in which we are comprehending the problem is incorrect [distortion #1]. Furthermore, we are applying our existing ideas/solutions to address the problem and not to comprehend it [distortion #2].

Option B: The distortion here is pretty clear - [**The inability to avoid forcing our current views** on a new situation is stupidity] (completely different from the idea discussed in the passage)

Option D: This does not fully capture the idea presented by the author and hence, can be rejected.

Option E: This is not implied - the author doesn't blame the "novelty of the problem" for our stupidity, and thus, this option is incorrect.

XAT Score Vs Percentile

11. **C**

"...they were hampered, beyond the shortage of material resources, by a kind of 'conceptual obsolescence', a failure to update their cognitive tools to fit the task in hand. In at least some cases, intelligence actively abets stupidity by allowing pernicious rationalisation..."

The author underscores how using past/obsolete models to fit novel situations qualifies as stupidity; he adds that intelligence furthers such stupidity by providing "pernicious rationalisation" - in a way, conveying how we justify the usage of past models to fit the current situation [as is the case with Haig]. Hence, our success with past models makes us presume that they'll function in new situations. Option C comes closest to presenting the author's intention when he correlates intelligence and stupidity.

Options A, B and D, can be easily eliminated since they do not relate to the discussion [are not implied]. Option E, while closer to the idea in C, focuses on the idea around 'rationalisation' rather than the application of past models to new problems. Furthermore, we cannot discern what is meant by "rationalization...**acceptable**."

Hence, the correct answer is Option C.

12. **B**

To combat stupidity, according to the passage what is needed is "the construction of a new way of seeing ourselves and our world." So, to avoid stupidity a leader must be aware that current answers are only applicable to the current content and that they must not be force-fit into crude pigeonholes. So option B is the correct

answer here.

13. **C**

The paragraph states that people are unreflective thinkers and are socially indoctrinated into their beliefs. They did not decide what to believe by themselves.

Option C mentions people believing what they oppose, which is not mentioned in the passage. Hence, the answer is option C.

14. **B**

According to the passage, a bullshitter attempts to deceive us about his enterprise/what he is up to, while a liar attempts to deceive by attempting to lead us away from what he supposes is true. So, both intend to deceive, in their own ways.

Note that, according to the passage, the liar is bound by a conviction about what he believes to be the truth whereas the bullshitter is neither guided nor misguided by truth. So, option B is the correct answer.

15. **D**

The line preceding the given line: "The fact about himself that the bullshitter hides, on the other hand, is that the truth-values of his statements are of no central interest to him". So, bullshitters do not find the truth to be useful. Therefore, option D is the correct answer.

XAT Score Calculator

16. **C**

We are told that a liar believes that he knows the truth and attempts to convince us of the opposite, while a bullshitter is not concerned about either the truth or lies but only about deceiving the listener. Hence, their agendas differ largely - the former focuses on lying, while the latter engages in deception [the end outcome]. Hence, for a liar to become a bullshitter, he needs to focus on the outcome - i.e. deceiving others. Option C comes closest to capturing this idea.

Option A: The statement here is quite vague - deception is involved in both cases. The liar much be unconcerned by/detached from the truth [it is unclear if this relates to the idea of 'not responding']

Option B: We cannot conclusively state that a liar can transform into a bullshitter by not being worried about the correct 'apprehension of reality' - the idea is not relevant to the discussion on a bullshitter [i.e. the author has not presented it as a trait of a bullshitter]

Option D: The same applies to the bullshitter - both categories of individuals conceal their intentions [only that in the case of bullshitters, they are much less or not at all concerned about the truth]

Option E: Note that a bullshitter is not concerned with the state of affairs as demonstrated by these lines - *"What bullshit essentially misrepresents is neither the state of affairs to which it refers nor the beliefs of the speaker concerning that state of affairs."*

17. **B**

'...According to Aristotelean theory, the first kind of life would be classified as "hedonic"—one based on pleasure, comfort, stability, and strong social relationships. The second is "eudaimonic," primarily concerned with the sense of purpose and fulfilment one gets by contributing to the greater good..'

From the above lines of the passage, it can be inferred that Hedonic focused on pleasure and comfort, while Eudaimonic focused more on their contribution to the greater good.

Options A, C, and D are distorted inferences and can be easily eliminated.

Option E is a close answer, but the greater good has a broader scope than just giving pleasure to others.

Option B is the right option, as it describes the difference most aptly.

18. **E**

'... it's one characterized by "interesting experiences in which novelty and/or complexity are accompanied by profound changes in perspective."

In the context of the passage, a "psychologically rich life" refers to a life in which different experiences lead to a change of perspective of our views.

Option E describes this meaning in the most accurate manner.

Options A, B and option C are a total misrepresentation of the idea. Option D has a very narrow scope, and the author does not specifically talk about the change in perspective of how a good life should be.

Thus, the correct answer is E.

19. C

Given the elements discussed in the passage, identifying the conclusion can be quite tricky, perhaps even causing inextricable confusion. A way around this would be to trace the dominant ideas discussed here - at the centre of the discussion lies the question: "What qualifies as a good life?". The author presents two perspectives that have been considered so far - hedonic [happiness] and eudaimonic [purpose]. A third way to view this question is then presented - a standpoint with "psychological richness" at its core. The author elaborates on this concept and emphasises that positive and negative experiences can be labelled as psychologically rich. He then builds on this idea, conveying that even bad experiences can help a person lead a good life [this appears to be the primary conclusion mainly because it ties in with the question that the author poses at the beginning of the discussion]. Option C correctly presents this.

Option A: The statement here is assertive - a better version would be: "A psychologically rich life can/could be a good life." Furthermore, this is not necessarily the primary conclusion since it misses out on a portion of the discussion presented towards the end.

Option B: While true, the author uses this point to answer the question posed at the beginning; thus, this is an ancillary idea and not the primary conclusion.

Option D: The author presents a third alternative; however, he doesn't seek to merely underline that "a good life should not be seen in binary terms." [there is more to the passage than this - the author builds on the idea of psychological richness]

Option E: This is not implied in the passage and, thus, can be rejected.

20. B

Options C and D are incorrect as they seek justice for their cause. Option A and E are incorrect as they are paid for what they do. In option B, a wildlife photographer posts pictures of migrants and seeks justice for the public. Therefore, he is considered as a public person.

Answer is option B.

XAT Crash course

21. B

Public action as mentioned in the passage is 'the space where we take risks, subject our common life to scrutiny, seek justice (that sometimes requires us to transgress what seem like accepted laws) in order to be increasingly open to the claims and needs of other humans'. Option B conveys the given point in the passage.

Answer is option B.

22. A

As we live together, we are socially dependent and we focus on the way how people accept us.

Answer is option A.

23. B

In the poem, the poet mentions some pain that they are in caused by some sacrifice they made for someone. The poet is also wondering whether the trade they made for being with someone they care about was fair.

Among the options, B is the most suitable choice.

24. A

"Once I had a voice / Now I have legs / Sometimes I wonder / Was it a fair trade?"

Option E indicates that the poet has a choice, which is invalid according to the lines. Hence, it is eliminated.

Option B is being literal about the poet losing their speech. Hence, it is also eliminated.

Options C and D are vague and not reflected in the poem.

Option A is the best choice for the answer.

25. **C**

Statements 2, 3 and 4 are grammatically incorrect. The correct statements are:

2: The students wouldn't have completed their assignment even if the professor had been there.

3: I would have travelled across Europe if I weren't afraid of airplane crashes.

4: Saurav won't join music classes unless his father asks him.

Answer is option C.

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26. **A**

The paragraph's main idea is that labour is something we do for a living while work is different.

Option B is incorrect as the paragraph doesn't say that labour is something we do for a role. Options C and D are not mentioned in the paragraph. Option E gives an example, and it is not the whole idea of the given paragraph.

Answer is option A.

Decision Making

27. **B**

In option A, the assurance given by the mechanic can't be relied upon so it won't put Raghubir at ease. In option B it is said that Raghubir's lawyer friends bought non-compliant SUVs from tier two cities which means new emission norms are not strict in tier two cities, so this will also put Raghubir at ease. Option D is totally irrelevant. In option C, it does not matter if there are many SUVs because in his city if the law is enforced so this option can also be eliminated. Option E will not put Raghubir at ease because that might just be some people who are not abiding by the law and could be caught in the future.

28. **E**

Options C and D can be eliminated as Raghubir is emotionally attached to his SUV also taking the SUV to a metro city is not viable so option C is eliminated. Asking Raghubir to take public transport might also involve drastic change, so Option A is also eliminated. Retrofitting the SUV with CNG is not viable, so option B is also eliminated. Therefore option E is the best option in this case.

29. **C**

Clearly Q is the best option. He is emotionally attached to the SUV and would prefer the same look and feel in an EV if given an option. So, between options B and C, C is correct as T would be a more influential point compared to the speed of the EV as he now only travels between his home and clinic - a 10-minute drive.

30. **E**

Option A: Calling parents frequently to school at the time of a pandemic is not a feasible option.

Option B: This might spread misinformation about the school's credibility and can leave a wrong impression.

Option C: Giving discounts to the kids from well-off families during the pandemic(or in general) would be discrimination.

Option D: This will dilute the credibility of the school and will also be an example of discrimination.

Option E: This is the best way to deal with the situation as the one deserving will get some time after submitting the proof of their distress, and the ones pretending will have to pay the fees.

Thus, the correct option is E.

XAT Previous Papers

31. **C**

As the school is facing an immediate cash crunch, it should cut down on expenses and try to bolster the cash receivable. It should take all steps that are in their hands - asking others for money will take time and would not be entirely in their hands. So the first 2 steps should be Q and R as it would help the immediate situation. Moreover, R alone will not be effective. It needs to couple the threat with S to highlight the seriousness of the situation.

Step P would be helpful, but getting grants during financial crises is unlikely and would take a lot of time. Similarly, filling a new section to get money is unlikely to work when school is online and people are struggling. Hence, P and T should be last in priority as they are unlikely to work.

32. A

Option A: This is the best way for Biswas to present his case as he will have the precedence of a similar decision taken by other well-known schools.

Option B: Since teachers' reputation contributes to the reputation of the school, it is given that they get more salary compared to their peers. This will not much help Biswas in his case.

Option C: Getting an education from an institute is a two-way street. They paid fees for the school services. Presenting the case in this manner won't bear any fruit.

Option D: This case, instead of strengthening, will weaken the case of Biswas and hence is not the right choice.

Option E: The rejection of this case will have the same reason as option B.

Thus, the correct answer is A.

33. D

Since there is no preference for the houses for the new recruits, Sauf can be allocated to Harsh's room if he is shifted to 224. In this way, there will be no conflicts for the CAO.

Thus, option D is the correct answer.

Option A is a possible solution, but that will allow more requests for the swapping to emerge by giving them precedent. Options B and C can be rejected as Harsh's formal request is also pending for quite a long time.

34. D

Among all the choices, option D is the most viable option, as it not only gives Rwang the appropriate space to live with his parents but also prevents any alterations in the present queue.

In addition, there is a very high chance of queue movement in the extended time window, which will allow Rwang to avail company's residential services.

Thus, the correct option is D.

35. E

Option E provides the aptest solution for the aforementioned issue by avoiding making exceptions or wasting much of the company's resources. This also targets the root of the problem instead of giving short-term solutions.

Options A, B, C, and D are not targeting the main issue; they are unnecessary, wasting the company's resources on short-term alleviations.

Thus, the correct option is E.

XAT 1-month preparation video

36. E

Option C is incorrect as it is worst thing someone can do to support a cause. Option B is incorrect as constructing bridge doesn't disturb the life of fishes, frogs etc., Options A may help but are not the most feasible options when compared to option E.

E is a better choice over D as a Panchayat as a resolution passed by the panchayat would be more credible. Answer is option E.

37. E

Among the given options, only option E protects her pro-development image by convincing people that the project will improve the socio-economic conditions of area and benefit the residents.

Answer is option E.

38. C

Option E doesn't address the question. Proving that her father is misconstrued doesn't showcase the daughter's unique identity.

Option A - the current affairs need not necessarily be relevant in this cause.

Option B - going totally against her father - discrediting him to get a job would be unethical.

D is an illogical step.

By showcasing on social media the accolades and awards she received in her college, Pragati can communicate to the corporates that she has an identity of her own.

Answer is option C.

39. **E**

It is mentioned that hospital staff frequently visit his stall during office hours as they find his dosas to be reasonably priced. Option E dissuades him the most because if shifted to the hospital food court, the minimum price should be Rs 200, which may discourage staff from visiting the stall.

Options A and C may bother Dileep to some extent but not more than option E.

Options B and D are incorrect as the statements support shifting the stall.

Answer is option E.

40. **D**

Giving a discount to only hospital staff is unfair to the other customers. Therefore, options A, B and E are incorrect.

Option C is incorrect as the increasing prices of all food items discourage staff from visiting the stall, and adding shezwan dosa will not help.

Option D is the correct answer as the prices for best-sellers remain the same, and adding more varieties at higher prices will help.

Answer is option D.

XAT Decision Making Mock Tests

41. **E**

In this question, Dileep wants to include general visitors and increase his sales. Option A is incorrect as charging premium prices to hospital staff is unfair. Introducing massive discounts welcomes hospital staff to the stall, making general visitors think that the stall is a staff canteen. Therefore, option C is incorrect. Option E is correct; this discourages hospital staff from visiting the stall and increases sales from staff and general visitors.

Answer is option E.

42. **A**

The dean wants to be fair to Aparna but also wants to show the new recruits that research work is essential for their jobs. Thus, there needs to be some form of action which is not too harsh but conveys the message.

Options D and E will be eliminated as they are more negative than expected and unfair to Aparna.

Option B is too lenient as there is no consequence for her actions.

Option C, increasing the requirements and probation period by 2 yrs would be too harsh.

Before extending the probation period, there should be a warning at least as Aparna had been contributing towards an unprecedented noble social cause. So, A is the best choice.

Hence, the answer is option A.

43. **D**

Since Aparna has received recognition for her work and the Chief Minister wants her to help the government in social outreach programs, terminating Aparna from the institute will create a negative image of the institute, which the Dean wants to avoid.

Option B serves both purposes and is far better than other options.

Thus, among the options, E is the most rational choice.

44. **C**

Confirming Aparna will send a contradictory message to the new recruits about the teaching and research policy of the institute. Hence, options B and E are eliminated.

Firing Aparna or talking about her poor performance will put the institute in a negative shadow, and thus, options A and D will be eliminated.

Option C shows the institute's readiness to hire Aparna as well as its determination to uphold the teaching and research policy.

Hence, the answer is option C.

45. C

Since there is a valid and justifiable reason for the assignment to be incomplete, Sundaresan should give some form of concession to the team but should also add some clause so that it is not unfair to the other students who completed their assignments in time.

Option A would be unfair to the team as it was a team assignment and could not be completed without a team member.

Options B and D were inconsiderate on the professor's part.

Option E is entirely unfair to each team member and is, thus, invalid.

Being a professor of Corporate Responsibility at a premium management institution, C should be the correct step to go with.

Hence, the answer is option C.

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46. E

Whether to complete the assignments individually or in a team was an individual choice that everyone made for themselves. Thus, giving additional marks to the people working alone would be unreasonable as they could have chosen to be in a team.

Hence, the answer is option E.

47. E

Basic fundamentals of teamwork - if one goes down, all go down, i.e., sharing the responsibility. Option E is correct.

Quant

48. C

The supplier receives his orders from the five buyers once every 2 weeks, once every 6 weeks, once every 8 weeks, once every 4 weeks, and once every 3 weeks.

The number of occasions where all the five buyers place the order on the same day is :

The LCM of the 5-time frames during which the 5 buyers place their orders :

Hence the LCM is :

(2, 6, 8, 4, 3).

= 24 weeks.

Once every 24 weeks, all five of them place the order simultaneously.

A year has 52 weeks in total :

Hence all five of them place the orders after 24 weeks, 48 weeks.

49. E

Initially considering the number of members = a

The number of ladoos each member is required to make as per the original plan = b.

Given : $a \cdot b = 2400$.

Given that 10 members were absent and each member had to make an additional 12 ladoos :

$$(a-10) \cdot (b+12) = 2400.$$

$$ab - 10b + 12a - 120 = 2400.$$

$$\text{Since } a \cdot b = 2400.$$

$$\text{Hence } 12a - 10b = 120.$$

$$\text{Substituting } b = 120/a. \quad 12a - 10 \cdot \left(\frac{2400}{a}\right) = 120$$

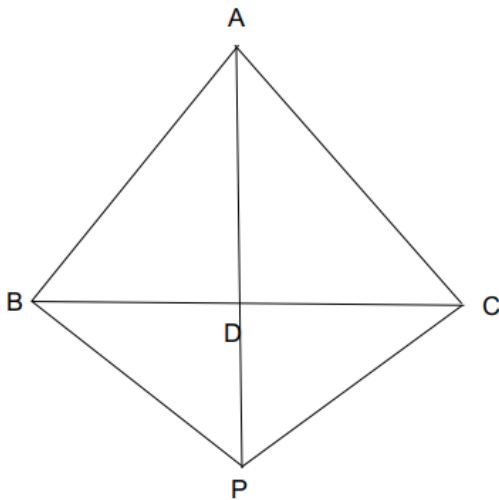
$$= 12a^2 - 24000 - 120a = 0$$

The roots are $a = 50$, $a = -40$.

Hence $a = 50$, $b = 48$.

The number of people who took part in making ladoos = $a - 10 = 40$

50. B



Given:

$BD = 6$ cm, $AC = 9$ cm, $DC = 5$ cm, $BP = 8$ cm, and $DP = 5$ cm.

Since AD is the angular bisector applying the angular bisector theorem we have :

$$\frac{AB}{BD} = \frac{AC}{CD}$$

Hence : Considering $AB = x$ cm.

$$\frac{9}{5} = \frac{x}{6}$$

$$x = 10.8 \text{ cm.}$$

Now since BD is the angular bisector for angle PBA we have :

Applying the internal angle bisector theorem :

$$\frac{PB}{PD} = \frac{BA}{AD}$$

Considering $AD = y$ cm.

$$\frac{8}{5} = \frac{10.8}{y}$$

$$y = 6.75 \text{ cm.}$$

$$AP = AD + DP.$$

$$= 6.75 + 5 = 11.75 \text{ cm}$$

XAT Decision Making Free Video

51. A

The two types of apples sold A and B are bought in the ratio of 5: 8.

Considering the weights to be $5x$ and $8x$.

The cost price of A is 20 percent higher than that of B.

Considering the cost price of $B = y$, $A = 6y/5$.

The total cost price of A = $(5x) \cdot \left(\frac{6y}{5}\right)$

The total cost price of B = $(8x) \cdot (y)$

The total cost price = $8xy + 6xy = 14xy$

$14xy = 2800$.

$xy = 200$.

The cost price of A = 1200.

The cost price of B = 1600.

A is sold at a profit of 15 percent. 15 percent of 1200 = 180.

B is sold at a profit of 10 percent. 10 percent of 1600 = 160.

The total profit is $180 + 160$

= 340

52. **B**

Given the ball falls from a height of 3 meters.

The ball reaches a height which 0.8 times the original height every time.

Hence this is in the form of a geometric progression. We need to count distance when the ball flies upward and downward.

Hence considering every time the ball flies upward to a series with terms :

h_1, h_2, \dots

Every time the ball falls down to be

d_1, d_2, \dots

$h_1 = (0.8)^3, h_2 = (0.8)^4, \dots$

$d_1 = 3, d_2 = 3 \cdot (0.8), d_3 = 3 \cdot (0.8)^2, \dots$

$h_1 + h_2 + \dots = \text{Sum of an infinite geometric progression.} = 3 \cdot 0.8(1 + 0.8 + 0.64 + \dots)$

The sum of an infinite GP with r less than 1 is : $\frac{a}{1-r}$

$= 2.4 \cdot \left(\frac{1}{1-0.8}\right) = 12 \text{ meters}$

The sum of $d_1 + d_2 + \dots$

$= 3 + (h_1 + h_2 + \dots) = 15$.

The total distance = $15 + 12 = 27$ meters.

53. **C**

Considering the two numbers to a, b :

We were given that :

$$a^3 + b^3 = 128$$

$$\frac{1}{a^3} + \frac{1}{b^3} = 2$$

$$\frac{(a^3 + b^3)}{a^3 \cdot b^3} = 2 = \frac{128}{k}$$

$k = 64$.

Hence $a^3 \cdot b^3 = 64$

$$a \cdot b = 4 \text{ and } a^2 \cdot b^2 = 16$$

54. **D**

The age of Nadeem is a two-digit number. When squared yields a three-digit number whose last digit is Y. Y is a prime number.

Using statement 1:

When a number is squared :

The last digit of the number can be :

1, 2, 3, 4, 5, 6, 7, 8, 9. When squared the last digit can be :

For a number ending with 1: 1

For a number ending with 2: 4

For a number ending with 3: 9

For a number ending with 4: 6

For a number ending with 5: 5

For a number ending with 6: 6

For a number ending with 7: 9

For a number ending with 8: 4

For a number ending with 9: 1

The only possible prime number is 5.

Hence the last digit of X is 5 and Y is 5.

Using statement 2 : $Y = X/3$.

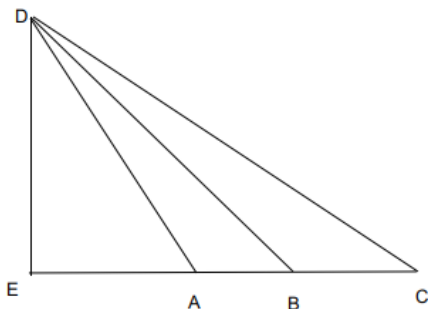
This alone cannot be sufficient to determine the possibilities for Y and X.

Combining both the statements :

Since $Y = 5$, then the value of $X = 15$.

The age is equal to 15.

55. **C**



Given the distances are :

$AE = 4$ meters , $EB = 8$ meters and $EC = 16$ meters.

Considering the length of $ED = K$.

Given the angles DAE and angle DCE are complementary.

Hence the angles are A and $90 - A$.

$$\tan(90-A) = \cot A$$

$$\tan DAE = \frac{k}{4} \text{ and } \tan DCE = \frac{1}{\tan DAE} = \frac{k}{16}$$

$$\text{Hence } \frac{k}{16} = \frac{4}{k}$$

$k = 8$ meters.

The angle DBE is given by

$$\tan DBE = \frac{k}{8} = 1$$

Hence the angle is equal to 45 degrees.

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56. **D**

Using condition W :

The magnitudes of the net change in enrollment between 2014 and 2021 is closest among any two universities for TRU and MPU.

Going by the color of the lines the net change for different universities is:

Univ 1: 0.7

Univ 2: 4.4

Univ 3: 0.1

Univ 4: 0.2

Univ 5: 3.3

The closest among these are: Univ 3 and Univ 4. They can possibly be : (TRU/MPU)

Using condition X :

The university LTU must have the same enrollment in consecutive years at least twice :

LTU can either be Univ 3 or Univ 1 but since Univ 3 must be among TRU and MPU. LTU is university 1.

Using condition Y :

The increase in the enrollment of JSU between the years 2015 and 2019 is 50 percent of TRU's total enrollment in 2020.

Considering :

TRU = Univ 4

The enrollment is 5.

TRU = Univ 3

The enrollment is 0.7

For TRU as Univ 3, there is no university whose increase in enrollment between 2015 and 2019 is 50 percent of TRU.

Hence TRU = Univ 4.

Since the increase in enrollment for JSU is half of TRU. The increase must be half of 5 = 2.5

The only possible case is JSU = Univ 2.

MPU = Univ 3.

LTU = Univ 1

PKU = Univ 5.

57. **B**

Using condition W :

The magnitudes of the net change in enrollment between 2014 and 2021 is closest among any two universities for TRU and MPU.

Going by the color of the lines the net change for different universities is:

Univ 1: 0.7

Univ 2: 4.4

Univ 3: 0.1

Univ 4: 0.2

Univ 5: 3.3

The closest among these are: Univ 3 and Univ 4. They can possibly be : (TRU/MPU)

Using condition X :

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Hence TRU = Univ 4.

Since the increase in enrollment for JSU is half of TRU. The increase must be half of 5 = 2.5

The only possible case is JSU = Univ 2.

MPU = Univ 3.

LTU = Univ 1

PKU = Univ 5.

Since LTU is Univ 1 the university with an enrollment twice that of LTU = $2 \times (3.2)$
= 6.4.

Hence the only possible case close by is Univ 5 (PKU)

58. C

Using condition W :

The magnitudes of the net change in enrollment between 2014 and 2021 is closest among any two universities for TRU and MPU.

Going by the color of the lines the net change for different universities is:

Univ 1: 0.7

Univ 2: 4.4

Univ 3: 0.1

Univ 4: 0.2

Univ 5: 3.3

The closest among these are: Univ 3 and Univ 4. They can possibly be : (TRU/MPU)

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Since the increase in enrollment for JSU is half of TRU. The increase must be half of 5 = 2.5

The only possible case is JSU = Univ 2.

MPU = Univ 3.

LTU = Univ 1

PKU = Univ 5.

All the universities can be uniquely determined without using the condition Z.

59. **C**

Boxes 7 to 16 contain a total of 100 pencils each. The minimum number of broken pencils the box can hold is 5 percent of the total pencils and a maximum of 20 percent of the total pencils.

5 percent of 100 = 5 and 20 percent of 100 = 20 pencils.

Hence the number of broken pencils must be in the range of 5 to 20.

The frequency of the different number of broken pencils is :

5 - 1

6 - 2

7 - 4

9 - 3

11 - 1

15 - 2

19 - 1

20 - 3

29 - 1

31 - 1

33 - 1

The boxes cannot contain 29, 31, 33 to be the number of broken pencils because they are beyond 20 percent.

Since boxes 1- 6 can contain only between 2.5 to 10 pencils. The remaining boxes which include broken pencils of numbers less than 10 must be a part of 7 - 16. Because boxes 17 - 20 cannot contain broken pencils of numbers less than 10.

Hence 7 - 16 must have 4 boxes that contain less than 10 broken pencils.

Going through the options :

Option A fails because this includes only 3 boxes with less than 10 pencils.

Option B fails because we only have 2 boxes with 6 broken pencils but this includes 3.

Option D fails because it does not include a box of 15 and a box of 20 pencils which can only be a part of boxes with 100 or boxes with 200 pencils. Since boxes 17 - 20 can include only one among 15 or 20 because 29, 31, 33 are a part of this group. Hence this case fails.

Option E fails because this includes 5 boxes with broken pencils less than 10 but this is not possible because this must exactly contain 4 boxes with less than 10 pencils.

Option C is a feasible case containing :

1-6 (5, 6, 6, 9, 9, 9)

7 - 16 (7, 7, 7, 7, 11, 15, 15, 19, 20, 20)

17 - 20 (20, 29, 31, 33)

60. **D**

Going by the given options :

Option A: The boxes numbered 1- 6 have a capacity of 50 pencils. The maximum number of broken pencils they can contain is 20 percent of 20 pencils = 10 pencils. For boxes numbered 17 to 20 they must contain a minimum of 5 percent which is equivalent to 5 percent of 200. Hence this is true.

Option B: Boxes with broken pencils of 29, 31, 33 must be a part of 17 - 20. There must be one box containing broken pencils in the range of 10 to 20. There are three boxes in total containing exactly 20 pencils. A maximum of only one of the three can be a part of 17 - 20. The remaining must be a part of boxes 7- 16 because they cannot be a part of 1-6. Hence at least one box among 7 - 16 contains 20 percent of broken pencils which is the highest.

Option C: There are a total of ten boxes with less than 10 broken pencils. They can either be a part of boxes 1-6 or 7 - 16. Since boxes 1-6 can only take broken pencils with less than 10 in number. Hence of the 10 six must be a part of 1-6 and the remaining 4 must be a part of 7 - 16.

Option D: The only possibility for containing 20 percent of the broken pencils is only possible for 20 broken pencils which is 20 percent of 100. There must be at least 2 boxes in the range of 7 - 16 which contain 20 broken pencils which is equal to 20 percent. The third box can either be a part of (7-16) to (17-20). If this belongs to 17 - 20 then the case is not possible and hence cannot be concluded.

Option E: Boxes containing 29, 31, and 33 broken pencils must be a part of boxes 17 -20 because they are higher than the 20 percent range of boxes (1-6) and (7-16). Hence this can be concluded.

XAT crash course (28-day schedule) detailed video

61. **E**

Going by the options :

Option A: Boxes 7- 16 contain a total of 124 pencils. Boxes (1-6) has 6 boxes with broken pencils which can be included from :

(5, 6, 6, 7, 7, 7, 9, 9, 9). The minimum possible sum of the 6 pencils is : $(5+6+6+7) = 24$ and the maximum possible sum is $(7+9+9+9) = 34$.

Boxes 7 - 16 contains all the boxes with broken pencils except one among the boxes with broken pencils among 11 - 20 and hence ;

This can contain : $(11+15+15+19+20+20)$ or $(15+15+19+20+20+20)$ or $(11+15+15+20+20+20)$ or $(11+15+19+20+20+20) = 100/109/101/105$.

The only possible case to contain 124 pencils is by considering the case : $(24+100) = (5, 6, 6, 7, 11+15+15+19+20+20) = 124$.

Hence box 17 - 20 must contain (20, 29, 31, 33).

Option B: Boxes 17 - 20 contain a total of 108 pencils. Since 29, 31, 33 pencils must be a part of 17 - 20 boxes. The remaining box must contain $108 - (29 + 31 + 33) = 15$ pencils. Hence the order is (15, 29, 31, 33).

Option C: Boxes 11- 16 contain a total of 101 defective pencils. This is only possible if the boxes here contain : (20, 20, 20, 15, 15, 11) pencils. Hence the box containing 19 pencils must be a part of boxes 17 - 20 and the remaining three contain 29, 31, 33. (19, 29, 31, 33)

Option D : Box number 17 containing more pencils than any box from box number 1- 14. Hence this only possible if Box 15, 16, 17 contains 20 pencils each and 18, 19, 20 contain (29, 31, 33).

Option E : Box 7-16 containing 133 broken pencils :

Boxes (1-6) has 6 boxes with broken pencils which can be included from :

(5, 6, 6, 7, 7, 7, 9, 9, 9). The minimum possible sum of the 6 pencils is : $(5+6+6+7) = 24$ and the maximum possible sum is $(7+9+9+9) = 34$.

Boxes 7 - 16 contains all the boxes with broken pencils except one among the boxes with broken pencils among 11 - 20 and hence ;

This can contain : $(11+15+15+19+20+20)$ or $(15+15+19+20+20+20)$ or $(11+15+15+20+20+20)$ or $(11+15+19+20+20+20) = 100/109/101/105$.

This has multiple possibilities which include $(109 + 24)$ or $(101+32)$ or $(105+28)$. Hence cannot be uniquely determined

Explanation [62 - 64]:

As per the given conditions :

Qadir and Simarjeet both of them scored a score of 7 each.

In the table, it can be found that both Qadir and Simarjeet marked the same answer for exactly four questions. They are :

Q3, Q5, Q8, and Q10.

Both of them had 3 more questions correctly. Hence for the rest 6 questions 3 of them must have been answered by one of them correctly and the other three by another one of them.

Hence the answers must have been :

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
A/D	A/B	A	B/C	C	C/D	A/B	D	B/D	A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
A/D	A/B	A	B/C	C	C/D	A/B	D	B/D	A

Now looking at the score of Rakesh he scored a total of 3 marks.

All the questions for which both Qadir and Simarjeet have answered correctly he has marked them wrong. He for whatever question he must have answered correctly exactly one among Qadir and Simarjeet must answer the same. Because at least one of them answered each question correctly.

Hence he must have answered correctly 3 questions among (1, 6, 7, 9)

Of the different possibilities are (1, 6, 7), (1, 6, 9), (6, 7, 9), (1, 7, 9).

But the cases 6, 7, 9 fails because if he answered all three of them correctly then he must have answered 1 wrongly but since if 1 is answered wrong then all of 1, 6, 7, 9 are answered correctly by Simarjeet when Simarjeet can answer actually a total of 3 questions only correctly hence this case fails.

Similarly if considered the cases (1, 6, 7) and (1, 6, 9) as the questions which were answered correctly. The cases fail because if they are answered correctly we cannot possibly have Pavan answering 5 questions correctly.

Hence the only possibility is he must have answered the questions :

(1, 7, 9) correctly.

Hence the correct answers are :

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
A	A/B	A	B/C	C	C/D	A	D	B	A

Now drawing the table based on the answers marked by them :

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total Marks
OM	W		W		C		W	W	W	W	2
Pavan	W		C		W		C	W	C	W	5
Qadir	C		C		C		W	C	W	C	7
Rakesh	C		W		W		C	W	C	W	3
Simar	W		C		C		C	C	C	C	7
Tracey	C		W		W		W	W	W	W	2

Simarjeet must have answered 1 question of the Q2, Q4, and Q6 correctly. Qadir must have answered the remaining two of them correctly.

If Simarjeet answered Q4 correctly and Q2, Q6 wrong the answers for Q2, Q4 and Q6 will be: B, B, and D

But if Q2 and Q4 are answered as B then Om must have scored 3 marks instead of 2 and hence the case fails.

If Simarjeet answered Q6 correctly and Q2, Q4 wrong the answers for Q2, Q4 and Q6 will be: A, C, and C.

But Pavan cannot score 5 marks.

Hence Simarjeet must have answered Q2 correctly and answers for Q2, Q4, and Q6 will be :

(B, C, D).

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total Marks
OM	W	C	W	W	C	W	W	W	W	W	2
Pavan	W	C	C	W	W	C	C	W	C	W	5
Qadir	C	W	C	C	C	C	W	C	W	C	7
Rakesh	C	W	W	W	W	W	C	W	C	W	3
Simar	W	C	C	W	C	W	C	C	C	C	7
Tracey	C	W	W	W	W	C	W	W	W	W	2

62. **D**

The correct answer for Q5 is C.

63. **C**

Q6 and Q8 have D as the correct answer.

64. **B**

Of the different possibilities are (1, 6, 7), (1, 6, 9), (6, 7, 9), (1, 7, 9).

But the cases 6, 7, 9 fails because if he answered all three of them correctly then he must have answered 1 wrongly but since if 1 is answered wrong then all of 1, 6, 7, 9 are answered correctly by Simarjeet when Simarjeet can answer actually a total of 3 questions only correctly hence this case fails.

Similarly if considered the cases (1, 6, 7) and (1, 6, 9) as the questions which were answered correctly. The cases fail because if they are answered correctly we cannot possibly have Pavan answering 5 questions correctly.

Hence the only possibility is he must have answered the questions :

(1, 7, 9) correctly.

Hence the correct answers are :

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
A	A/B	A	B/C	C	C/D	A	D	B	A

Now drawing the table based on the answers marked by them :

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total Marks
OM	W		W		C		W	W	W	W	2
Pavan	W		C		W		C	W	C	W	5
Qadir	C		C		C		W	C	W	C	7
Rakesh	C		W		W		C	W	C	W	3
Simar	W		C		C		C	C	C	C	7
Tracey	C		W		W		W	W	W	W	2

Simarjeet must have answered 1 question of the Q2, Q4, and Q6 correctly. Qadir must have answered the remaining two of them correctly.

If Simarjeet answered Q4 correctly and Q2, Q6 wrong the answers for Q2, Q4 and Q6 will be: B, B, and D
 But if Q2 and Q4 are answered as B then Om must have scored 3 marks instead of 2 and hence the case fails.
 If Simarjeet answered Q6 correctly and Q2, Q4 wrong the answers for Q2, Q4 and Q6 will be: A, C, and C.
 But Pavan cannot score 5 marks.
 Hence Simarjeet must have answered Q2 correctly and answers for Q2, Q4, and Q6 will be :
 (B, C, D).

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total Marks
OM	W	C	W	W	C	W	W	W	W	W	2
Pavan	W	C	C	W	W	C	C	W	C	W	5
Qadir	C	W	C	C	C	C	W	C	W	C	7
Rakesh	C	W	W	W	W	W	C	W	C	W	3
Simar	W	C	C	W	C	W	C	C	C	C	7
Tracey	C	W	W	W	W	C	W	W	W	W	2

Q4 was answered wrong by 5 members.

65. **B**

We have

$$3.1416141614161416.....$$

$$= 3 + 0.1416 + 0.00001416 + 0.000000001416.....$$

$$= 3 + \frac{1416}{10^4} + \frac{1416}{10^8} + \frac{1416}{10^{12}} +$$

Now excluding 3 we get a series with infinite Geometric progression such that first term is $\frac{1416}{10^4}$ and common ratio is $\frac{1}{10^4}$

Therefore we get sum as $\frac{a}{1-r}$

$$= \frac{\frac{1416}{10^4}}{1 - \frac{1}{10^4}}$$

we get sum as $\frac{1416}{10^4 - 1}$

$$= \frac{1416}{9999}$$

Now adding 3 we get value as :

$$\frac{31413}{9999}$$

Now taking 3 common we get ratio of A:B as

$$\frac{10471}{3333}$$

So A-B will be = 7138

Important Formulas for XAT Download PDF

66. **C**

Going by the cases in the option for the five days :

Day 1 : (Opening price, Closing Price) : (2365, 2395)

Day 2 : (Opening price, Closing Price) : (2395, 2425)

Day 6 : (Opening price, Closing Price) : (Closing price is lower than the opening price)

Day 7 : (Opening price, Closing Price) : (Closing price is lower than the opening price)

Day 10 : (Opening price, Closing Price) : (2277.5, 2292.5)

$$\text{The percentage increase for day 1 : } \frac{(2395 - 2365)}{(2365)} \cdot 100 = 1.26\%$$

$$\text{The percentage increase for day 2 : } \frac{(2425 - 2395)}{(2395)} \cdot 100 = 1.252\%$$

$$\text{The percentage increase for day 10 : } \frac{(2292.5 - 2277.5)}{(2277.5)} \cdot 100 = 0.65\%$$

Hence Day 1 is the highest

67. **B**

Among the given days the magnitude of change in difference of the maximum price in an interval of two days is :

Day 1 - Day 3 : (2415, 2440) : 25

Day 2 - Day 4 : (2432.5, 2455) : 22.5

Day 3 - Day 5 : (2440, 2415) = 25

Day 4 - Day 6 : (2455, 2400) = 55

Day 5 - Day 7 : (2415, 2367.5) = 47.5

Day 6 - Day 8 : (2400, 2330) = 70

Day 7 - Day 9 : (2367.5, 2330) = 52.5

Day 8 - Day 10 : (2330, 2332.5) = 2.5

The maximum difference among the possible cases is : 70

68. C

Going by considering the given options :

The ratio is given by :

$$\frac{(\text{Maximum price})}{\text{Opening price}}$$

Day 3 : (Maximum price, Opening price) : (2440, 2405) = the ratio = 1.014

Day 4 : (Maximum price, Opening price) : (2455, 2432.5) = ratio = 1.009

Day 10 : (Maximum price, Opening price) : (2330, 2292.5) = 1.016

Day 1 : (Maximum price, Opening price) : (2415, 2395) = 1.008

Day 9 : (Maximum price, Opening price) : (2330, 2297.5) = 1.014

Day 10 has the maximum ratio.

69. D

Given that X, Z are positive Y is negative and W can be either positive or zero or negative.

The given conditions are :

$$W^4 + X^3 + Y^2 + Z \leq 4$$

$$X^3 + Z \geq 2$$

$$W^4 + Y^2 \leq 2$$

$$Y^2 + Z \geq 3$$

For $W^4 + Y^2 \leq 2$. Since Y is negative *but* Y^2 is always positive and must be less than 2 because W^4 is a nonnegative value. Hence $Y = -1$ is the only possibility. For W this can take any value among -1, 0, 1.

$Y^2 + Z \geq 3$. Since $Y = -1$, Z must be at least equal to 2 so the value of $Y^2 + Z \geq 3$ is greater than 2.

X is a positive value and must at least be equal to 1.

The condition: $W^2 + X^2 + Y^2 + Z^2$ here has all the independent values: X^2 , Y^2 , Z^2 , W^2 are nonnegative.

$$W^4 + X^3 + Y^2 + Z \leq 4:$$

Since the value of Z is at least equal to 2 the value of Y^2 is equal to 1.

Since X is a positive number in order to have the condition of $W^4 + X^3 + Y^2 + Z \leq 4$ satisfied. The value of Z must be the minimum possible so that $X^3 + Y^2 + Z$ to have a value equal to 4 when X takes the minimum possible positive value equal to 1.

Hence X must be 1. W must be equal to 0 so that :

$$W^4 + X^3 + Y^2 + Z \leq 4. = \text{The sum} = (0+1+1+2) = 4. \text{ The only possible case.}$$

$$\text{The value of } W^2 + X^2 + Y^2 + Z^2 = (0+1+1+4) = 6.$$

70. C

The two given sequences in AP are :

x, a_1, a_2, y and x, b_1, b_2, z .

Additionally, it is given that : $y > x$ and $z < x$.

Hence the common difference is not zero for both the series :

Since $y > x$ the common difference is positive for the first series. (Considering the common difference to be d_1)

Similarly $z < x$ the common difference is negative for the given series. (Considering the common difference to be d_2)

Now for the given value :

$$\frac{(a_1 - a_2)}{(b_1 - b_2)}$$

The value of $a_1 - a_2$ is negative and $b_1 - b_2$ is positive.

Hence the value of $\frac{(a_1 - a_2)}{(b_1 - b_2)}$ takes a negative value.

The only possible option is -3.

The answer is option C.

XAT Preparation Tips

71. D

The pace of Jim's watch is slower by 3 minutes in comparison with Kim's watch for every one hour. The difference increases as the hours pass by.

The time "am" and "pm" of the watch coincide when the difference between the two clocks reduces to 24 hours. The two clocks display the same time including am and pm.

For a difference of 24 hours, the clock needs to lag by 1440 minutes.

For every one hour, the clock lags by 3 minutes. Hence in order to have a difference of 1440 minutes, it takes $\frac{1440}{3} = 480$ hours. This is equivalent to 20 days of time.

Hence for every twenty days, they display the same time.

In the period of Jan 1 and June 1, there are 150 days which includes 7, 20-day intervals. Along with the 7 times once on Jan 1st and once on June 1st, they display the same time.

A total of 9 times.

72. B

From the given conditions :

Considering the three-digit number to be $a b c$.

With the given conditions :

$$a = 2b, c = 3b.$$

Hence the number is of the form : $2b b 3b$.

Since all three of the values must be less than 10 and non-negative:

This takes values : $b = 1, b = 2, b = 3$.

Hence the possible numbers are : (213, 426, 639) :

The interchanged number must be greater than the original by 198.

Hence the different rearrangements for the three numbers are :

213 : (312, 321, 132, 123, 231).

426 : (462, 624, 642, 246, 264)

639 : (693, 963, 936, 396, 369)

The only possible value which is higher than the original by 198 is :

(426, 624).

The middle digit is 2.

73. **B**

The total number of ways of selecting 3 notes from the :

five 10-rupee notes, three 20-rupee notes, and two 50-rupee notes = 10 notes in total.

$${}^{10}C_3$$

$$= 120$$

The possibilities for the value of the three notes combined is at least 90 :

Rs 50 + Rs 20 + Rs 20 : The possibilities for this selection is :

${}^2C_1 \cdot {}^3C_2$. Selection of one Rs 50 note from the two and selection of 2 Rs 20 notes from the three.

Rs 50 + Rs 50 + Rs 10 :

$({}^2C_2) \cdot ({}^5C_1)$: Selection of two Rs 50 notes from the two and selection of 1 Rs 10 notes from the five.

Rs 50 + Rs 50 + Rs 20 :

$({}^2C_2) \cdot ({}^3C_1)$: Selection of two Rs 50 notes from the two and selection of 1 Rs 20 notes from the three.

A total of $6+5+3 = 14$ possibilities

The probability is $\frac{14}{120} = 7/60$.

74. **C**

The number of oranges, apples, guavas, and pears = 126, 162, 198, and 306.

Each box must contain an equal number of fruits with only one type of fruit. The additional condition provided is that there should be a minimum number of boxes in total.

The distribution is possible in multiple ways in such a way that distribution in each box is placed in such that each box contains a certain number of fruits n which is a factor for all the four given number of fruits :

Arrangement of 1 fruit of one kind in a basket.

2 is a factor of 126, 162, 198, and 306. So we can place 2 fruits of a particular kind in a basket.

Since we were asked for the minimum number of boxes this is possible when a maximum number of fruits of a kind are placed in a box.

Hence each box must contain the Highest common factor for the four numbers :

The prime factorization for the four numbers :

$$126 : 2 \cdot 7 \cdot 9, 162 : 2 \cdot 9 \cdot 9, 198 : 2 \cdot 9 \cdot 11, 306 = 2 \cdot 9 \cdot 17$$

The HCF is 18.

The number of boxes required for each :

$$\frac{126}{18}, \frac{162}{18}, \frac{198}{18}, \frac{306}{18}$$

$$7+9+11+17 = 44.$$

75. **A**

The function $f(x) = \frac{\log(3x-7)}{\sqrt{2x^2-7x+6}}$ is only defined when both the numerator and the denominator of the function are defined and the denominator is not equal to zero.

The logarithm of the function is only defined for positive values :

Hence $3x-7$ is greater than zero. Hence

$$x > 7/3.$$

The value inside square root are defined for positive values. The value of the quadratic equation in the square root must be positive.

Hence $2x^2 - 7x + 6 = 0$ has the roots :

$$\frac{(7+\sqrt{49-48})}{4}, \frac{(7-\sqrt{49-48})}{4} : 2, 3/2$$

The quadratic equation is positive for :

$$(-\infty, \frac{3}{2}) \cup (2, \infty)$$

Since in order to be a part of the domain the values of x must be greater than 7/3 and 7/3 is greater than 2 all values of x which are greater than 7/3 must be a part of the domain for x.

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General Knowledge

Essay

