

# Mock CAT - 12 2019

Scorecard (procreview.jsp?sid=aaaFOuj1h2PZo7o7VNG6wSat Jan 11 22:15:04 IST 2020&qsetId=YJCubfnF4N8=&qsetName=Mock CAT - 12 2019)

Accuracy (AccSelectGraph.jsp?sid=aaaFOuj1h2PZo7o7VNG6wSat Jan 11 22:15:04 IST 2020&qsetId=YJCubfnF4N8=&qsetName=Mock CAT - 12 2019)

Qs Analysis (QsAnalysis.jsp?sid=aaaFOuj1h2PZo7o7VNG6wSat Jan 11 22:15:04 IST 2020&qsetId=YJCubfnF4N8=&qsetName=Mock CAT - 12 2019)

Booster Analysis (BoosterAnalysis.jsp?sid=aaaFOuj1h2PZo7o7VNG6wSat Jan 11 22:15:04 IST 2020&qsetId=YJCubfnF4N8=&qsetName=Mock CAT - 12 2019)

Video Attempt (VideoAnalysis.jsp?sid=aaaFOuj1h2PZo7o7VNG6wSat Jan 11 22:15:04 IST 2020&qsetId=YJCubfnF4N8=&qsetName=Mock CAT - 12 2019)

Solutions (Solution.jsp?sid=aaaFOuj1h2PZo7o7VNG6wSat Jan 11 22:15:04 IST 2020&qsetId=YJCubfnF4N8=&qsetName=Mock CAT - 12 2019)

Bookmarks (Bookmarks.jsp?sid=aaaFOuj1h2PZo7o7VNG6wSat Jan 11 22:15:04 IST 2020&qsetId=YJCubfnF4N8=&qsetName=Mock CAT - 12 2019)

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QA

Sec 1

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We need public education around mental health. And we can begin by breaking the stigma, the silence and the shame around mental ill-health. Were you ashamed the last time you had the flu? Why then be ashamed of an illness just because it is above the neck? We actually need to be much more open about our mental health as it affects our most important organ: our brain. And without a healthy brain, there can be no question of any health.

The objective of the awareness days of the IASP and the WHO is not only public education around mental health, but also to reduce the stigma and discrimination that people who have a mental illness are subjected to and which, too often, lead to them to not realise or recognise – or acknowledge – their symptoms. One statistic indicates that people wait up to 10 years before seeking help after experiencing the first symptoms of depression. In a recent US study it was found that between 2009 and 2017, rates of depression among teens between 14 and 17 increased by more than 60%. In fact, among young people rates of suicidal thoughts, plans, as well as attempts, all increased significantly. In some cases it more than doubled.

But we have the power within us to change the grip of this silent stalker. By speaking up, we almost literally open up to something that is suffocating individuals, families, and communities. We should not be afraid to say the first s-word: Suicide. And then break down all those words that go with it: stigma, silence, shame. We can break the vicious cycle by disempowering those s-words and empowering ourselves by speaking up and by being informed about mental health.

Especially in view of another s-word: social media. We are only starting to see the effects of social media on our mental health. The "always on culture", of never letting go of yet another s-word, our smartphones, is detrimental to our well-being. The FOMO factor – fear of missing out – is already recognised as a serious condition and part of smartphone addiction.

If the rate of depression among teens in the US has risen with 60% over almost a decade, with suicidal thoughts, plans and attempts in some cases doubling, we can accept that the prevalence among South African youth would be the same – if not higher, as there are so many more stressors in our society.

The WHO's global survey on common mental disorders (CMDs) among first-year students showed that one in three arrived with a diagnosable condition on campus. Two South African campuses were part of the study, and while it is acknowledged that our campuses are at risk of experiencing a mental health crisis, there are just not enough resources to support students. Suicide is the second leading cause of death among 20- to 24-year-olds in the US, and it affects one in 12 US students. In South Africa, campus resources are by far not enough to support students, while the emotional stress leading to CMDs is increasing as a result of many factors.

But we can all *do* something. One example is a project that was held on the medical campus of the University of the Free State. Their Faculty of Health Sciences held their "Starry, Starry Night" suicide prevention and awareness initiative against the background of healthcare professionals and students who are at higher risk to suffer from mental ill-health, and medical doctors having the highest rate of suicide. Among others, survival skills were passed on to students, including measures of how to cope under pressure. We need more such interventions, and not only on medical campuses. [...]

**Q.1** 

Which of the following is the author's main message regarding depression?

- 1 It is not a weakness, it's an illness.
- 2 lt is treatable; so people should not fear it.

3 lt needs to be the main rallying point around which the issue of mental health is to be highlighted.		
4 □ It needs to be destigmatised so as to encourage more patient to seek timely treatment.		
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0.2

As per the author, social media and smartphones have:

- 1 turned a local issue into a global epidemic.
- 2 added to the severity of the issue of mental health.

 $4 \bigcirc$  worsened the plight of mentally ill people by encouraging their bullying. FeedBack **■** Bookmark Answer key/Solution

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0.3

Why do people wait for almost 10 years in America before seeking treatment for depression?

- 1 Decause they are not able to recognise or realise their symptoms.
- 2 Because they are afraid of being treated with shaming or prejudice.

3 Decause they are unaware of the consequences of depression.		
4 Decause there is a genuine lack of knowledge among people regarding the issue of mental health.		
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0.4

Why does the author end the passage by asking for more interventions?

- 1 Decause the author is impressed by their altruistic intentions.
- 2 Because s/he finds it to be the best way to prevent depression or suicidal thought.

Because s/he thinks that these actions will eradional tal health awareness.	cate the social barriers that I	have so far hindered the progress
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**Q.5** 

Which of the following has not been cited by the author as a roadblock to providing effective mental healthcare?

- 1 Debilitating willpower among the victims
- 2 Societal perception of the issue

3 The lack of resources		
4 The lack of public education around the issue		
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	≪ Answer key/Solution	
Direction for questions (6-9): Read the given passage and answer the questions that foll	ow.	
[] There is no dispute about the basic facts of the trial of Socrates. It is less obvious who guilty, and what it might mean today. People who believe in both democracy and the rule interested in this trial. If the takeaway is either that democracy, as direct self-government prone to repress dissent, or that those who dissent against democracy must be regarded are left with a grim choice between democracy and intellectual freedom.	of law ought to be very nt by the people, is fatally	
But that is the wrong way to view Socrates' trial. Rather, the question it answers concerns civic obligation and commitment. The People's Court convicted Socrates because he refused to accept that a norm of personal responsibility for the effects of public speech applied to his philosophical project. Socrates accepted the guilty verdict as binding, and drank the hemlock, because he acknowledged the authority of the court and the laws under which he was tried. And he did so even though he believed that the jury had made a fundamental mistake in interpreting the law.		
The conventional wisdom maintains that the impiety charge against Socrates was a smokescreen, that politics motivated his trial. Just four years earlier, a democratic uprising had overthrown a junta that ruled Athens for several tumultuous months. Meletus' prosecution speech at the trial likely urged the citizens of Athens to focus on Socrates' long association with members of this vicious and anti-democratic junta.		
In his influential interpretation <i>The Trial of Socrates</i> (1988), the US journalist-turned-classicist I F Stone saw this trial as an embattled democracy defending itself. In Stone's view, Socrates had helped to justify the junta's savage programme of oligarchic misrule and was a traitor. More commonly, Socrates is seen as a victim of an opportunistic prosecutor and a wilfully ignorant citizenry. In truth, politics is indispensable to understanding the trial of Socrates, but in a slightly more sophisticated way. Seeing Socrates as the paradigm of the autonomous individual, as a simple martyr to free speech, is wrong. Athenian political culture and, specifically, the civic commitments required of Athenian citizens are essential to understanding the trial. Socrates' own commitments to his city influenced the trial's course, and those commitments were core parts of Athenian political culture, shaping the relationship between public speech and responsibility. Indeed, the actions of Socrates, Meletus and the jury must be understood in the context of the Athenians' emphasis on the role of the responsible citizen in the democratic state, on their ideal of civic responsibility. []		
Q.6 As per the author, what is the wrong way of examining the trial of Socrates?		
1 To focus on the way Socrates accepted his verdict without protest		
2 To try to understand Socrates as an epitome of martyrdom		
3 To emphasise on the democratic aspect of the issue		
4 To think of the trial as an example of the subversion of free speech		

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Answer key/Solution

Answer key/Solution

Direction for questions (6-9): Read the given passage and answer the questions that follow.

[...] There is no dispute about the basic facts of the trial of Socrates. It is less obvious why Athenians found Socrates guilty, and what it might mean today. People who believe in both democracy and the rule of law ought to be very interested in this trial. If the takeaway is either that democracy, as direct self-government by the people, is fatally prone to repress dissent, or that those who dissent against democracy must be regarded as oligarchic traitors, then we are left with a grim choice between democracy and intellectual freedom.

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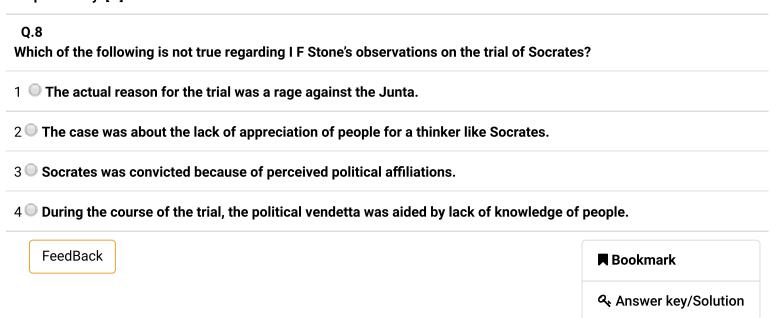
responsibility. []	
Q.7 As per the passage, what is the meaning of 'impiety'?	
1 O Illegal	
2 A code of rebellion	
3 Cack of respect	
4 Reverence	
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Q.9
The author's main conclusion about the democratic process is:

1 ● that it is both complex and layered.

2 ● that it is more important than the issue of free speech.

3 ● that it is always plagued by the issue of intellectual freedom against civic duty.

4 ● that it was directly responsible for the death of Socrates.

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Two millennia ago, a small Greco-Roman temple in present-day Turkey awed and enthralled its residents. Just beyond its stone gate, in a grotto shrouded in a heavy mist, a strange force worked dark deeds: Bulls ushered inside would lie down and perish; the castrated priests in charge would emerge unscathed.

Was it the bloodthirsty will of Pluto, the god of the underworld? The supernatural power of the priests? New research published in the journal Archaeological and Anthropological Sciences suggests a far earthlier explanation to the cave's mystery: noxious carbon dioxide.

Using a portable gas analyser, volcano biologist Hardy Pfanz led a team of scientists to discover that vapours emitted from the mouth of the cave — belched from a fissure running deep beneath the area—reached levels of 4% to 53% volcanic carbon dioxide, depending on the distance from the ground. The lower to the cave floor, the higher the amount of suffocating gas, which formed a lethal lake of carbon dioxide. The noxious gas is heavier than oxygen, so it settles lower, which is one reason CO2 leaks in your house make basements deadly. Animals with noses to the ground likely breathed in far more gas than the humans walking upright beside them, which could explain the priests' miraculous imperviousness.

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yourself.	might have the plutonium all to
Q.10 If there were a paragraph after the last, the author would most likely discuss:	
1 how the site can be promoted as a tourist spot.	
2 why plutonium should be a tourist hub.	
3	
4 why fear matters to the tourism industry.	
FeedBack	<b>■</b> Bookmark

Answer key/Solution

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Q.11 Vhat is the tone of the author in the last paragraph?	Q.11 What is th
Sarcastic and condescending	1 Sarca
☑ Ignorant and scornful	2 Ignora
B — Humorous and Observant	3 Humo
□ Scathing and Teasing	4 Scath



**■** Bookmark

Answer key/Solution

Direction for questions (10-14): Read the given passage and answer the questions that follow.

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## Q.12

As per the passage, why were people fascinated by Plutonium?

- 1 Because it gave rise to the possible power of Pluto.
- 2 Because it told a tale of mysterious death.
- 3 Decause animals died there mysteriously.

4 Because bulls died there whereas humans survived.

FeedBack

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Answer key/Solution

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Q.13

As per the passage, all of the following are true EXCEPT:

- 1 Carbon dioxide attacks lower level grounds more.
- 2 The site remains harmful for animals.

3 Tourism in Turkey has suffered because Americans no longer want to visit the country.		
4 The priests remained alive because they were breathing at a higher ground.		
FeedBack	<b>■</b> Bookmark	
	ه Answer key/Solution	

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Q.14

The author in the passage tries to:

1 adopt a conversational style to drive home his/her main point.

2 engage the readers in the description of a place by keeping the style casual.		
3 explore the possibility of the existence of a phenon	nenon by analysing empirical data.	
4 highlight the ridiculous nature of mysteries with the	e help of scientific research.	
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	ه Answer key/Solution	

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Callard is careful to distinguish unruliness from rebellion. By lying down in the road, she wasn't critiquing the status quo or sticking it to the Man. Unruly people might flatter themselves as rebels, but unruliness is nothing so determinate—it's just an unwillingness to play by the rules. It's a near-neighbour, therefore, to perversity, a topic long central to theology and philosophy. A classic example of a perverse desire appears in Augustine's "Confessions," written around the year 400. Augustine recounts how, in his youth, he and his friends stole some pears. They weren't hungry—in fact, they threw the fruit to the hogs. Instead, Augustine writes, their act was "gratuitously wanton, having no inducement to evil but the evil itself." Accounting for his behaviour, he concludes, "I loved the evil in me." We still explain perverse behaviour this way. Think of how Alfred describes the Joker in Christopher Nolan's film "The Dark Knight": "Some men aren't looking for anything logical, like money. They can't be bought, bullied, reasoned or negotiated with. Some men just want to watch the world burn."

In 2009, in *The Journal of Philosophy*, the philosopher David Sussman published an article called "For Badness' Sake." In it, he defined perverse actions as those undertaken when our normal desire for the good—perhaps the moral good, or maybe just the narrower good of self-interest—is reversed. This state of reversal can be expressed as wickedness, as in Augustine's case, but it doesn't have to be. Sussman considers the appeal of truly awful movies, or of corpses and grisly accidents, and notes our interest in sniffing spoiled food even though—or perhaps because—we know it to be disgusting. He reminds us that it's hard to see the "fragile beauty of icicles" without wanting to smash them, and points out that "most of us know what it is like to pick at a scab or worry a loose tooth simply because of the peculiar way in which doing so hurts."

Perverse actors—I won't call them "perverts," since that word evokes distracting connotations—can also be creative or funny. Scientific papers have had to be retracted because of so-called mischievous responders. Researchers who study teen-agers have it worst. In one study, nineteen per cent of high-school students who claimed to be adopted turned out to be kidding. In another, ninety-nine per cent of students who said they used an artificial limb really didn't. Adults aren't immune to the temptations of mischief. The blogger Scott Alexander points out that four per cent of Americans tell pollsters that they think reptilian aliens rule the Earth. [...]

Q.15

The purpose of this passage is to:

1  $\bigcirc$  distinguish between rebellion, perversity, and unruliness.

2 introduce the similarities between unruliness and perversity.	
3  illustrate the range of perverse behaviour with examples.	
4  explain the causes and consequences of the instinct to break rules.	
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	Answer key/Solution

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Q.16

All of the following statements are true, as per the passage, EXCEPT:

1 Sometimes, humans find disgusting things appealing.

2 Not all evil people need an external cause to act a certain w	ray.
3 When one is in an 'unruly' state, one does things which are	not normal.
4 Mischievous teens have caused some problem for research	ners.
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Q.17

Based on this extract, David Sussman would most likely consider which of the following actions perverse?

1 A young man sees an old man with a cane and decides to break the latter.

$2$ $\square$ A lady sees that a child is crying alone in a railway station and decides to not call the police.	
3 $lacktriangle$ A young girl sees that her friend is being bullied and decides to teach the bullies a lesson by becoming an even harsher bully.	
4 A man sees that a mob is beating a suspected thief and decides to join.	
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	ه Answer key/Solution

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1 They have a desire to maximise violence.	
2  Both are unapologetic about the evil in them.	
3 Neither of them can be bullied or coaxed into doing something.	
4  Both are examples of pure evil.	
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Perverse actors—I won't call them "perverts," since that word evokes distracting connotations—can also be creative or funny. Scientific papers have had to be retracted because of so-called mischievous responders. Researchers who study teen-agers have it worst. In one study, nineteen per cent of high-school students who claimed to be adopted turned out to be kidding. In another, ninety-nine per cent of students who said they used an artificial limb really didn't. Adults aren't immune to the temptations of mischief. The blogger Scott Alexander points out that four per cent of Americans tell pollsters that they think reptilian aliens rule the Earth. [...]

1 The author is shy of using strong terms to define morally reprehensive actions.				
2 The field of scientific research is plagued by perverse actors.				
3 Teenagers and children should not be allowed to participate in scientific research.				
4 The action of certain perverse actors can affect an entire field.				
FeedBack	<b>■</b> Bookmark			
	ه Answer key/Solution			

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Q.20	
As per the passage, Justice Felix Frankfurter wrote to the member of the drafting committee in order to:	
1 encourage him to subvert the rule of law.	
2 guide him to learn from a historical episode.	
3  teach him a lesson in history.	
4 □ help him make India a more democratic nation	



**■** Bookmark

Answer key/Solution

Direction for questions (20-24): Read the given passage and answer the questions that follow.

How flexible should constitutions be? How often, and how, should they change? Is a written constitution – unlike the unwritten British one – an invitation to the political polarities of instability or stasis? There is no simple answer to these questions. But history offers some guidance. Law, when it emerged in the great ancient Mesopotamian civilisations, was a 'tool of government'. Such a demystified, pragmatic view of law suggests legal constitutions are technologies for governing, designed and implemented to bring about socially negotiated outcomes. Depending on the histories and needs of their 'parent societies', different kinds of constitutions come about, generating histories of political, legal and economic evolution, and being altered by them in turn. The histories of the US and Indian constitutions show two related political and legal systems evolving over time, their variations underwritten by their country's historical experiences. The history of the Indian state and constitution includes a pragmatic American influence, with which the US would now benefit being reacquainted.

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Q.21

Which of the following, is most likely to answer the first question the author raises in the paragraph?

1 It should be flexible as long as it fulfils a practical requirement.

2 It should be flexible but stay within the scope of the intentions of its makers.				
3 It must never go beyond the scope of its original premise.				
4  It can be flexible as long as the legal principles are followed.				
okmark				
swer key/Solution				

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Q.22 The author uses the phrase "antidemocratic inclinations" in the second paragraph to indicate that:	
1 osometimes even good intention can result in an ur	ndesirable consequence.
2  it's the President's prerogative in the US to threater	n the judiciary.
3  the legal system is biased against the underprivile	ged due to corrupt judges.
4  the law doesn't necessarily always act in favour of	the public.
FeedBack	<b>■</b> Bookmark
	م Answer key/Solution

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Q.23 Why was the word 'personal' used to refer to 'liberty' in the amendment to the draft?
1 In order to follow the example of the US Court
2 To minimise the impact of 'due process of law'
3 To make the clarification of the term simpler
4 In order to facilitate India's 'anti-feudal' stance



**■** Bookmark

Answer key/Solution

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Q.24

As per the passage, why were the land reform laws crucial for India?

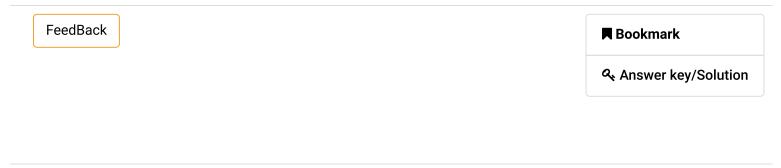
1 To enhance the power of the government to seize property for national causes

2 lacksquare To make the process of India's independence smoother by eliminating private properties				
3 □ To reduce poverty in the country by a more equitable distribution of resources				
4 To encourage a more equal society by reducing the gap between two classes				
FeedBack	■ Bookmark			
	م Answer key/Solution			

# Q.25

Directions for question (25): The four sentences (labelled 1, 2, 3, and 4) given in this question, when properly sequenced, form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence of four numbers as your answer.

- 1. A more modern and social understanding of disasters, however, views this distinction as artificial since most disasters result from the action or inaction of people and their social and economic structures.
- 2. A disaster is an extreme disruption of the functioning of a society that causes widespread human, material, or environmental losses that exceed the ability of the affected society to cope with its own resources.
- 3. India's geo-climatic conditions as well as its high degree of socio-economic vulnerability, makes it one of the most disaster-prone country in the world.
- 4. Disasters are sometimes classified according to whether they are "natural" disasters, or "human-made" disasters.



# Q.26

Directions for question (26): Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

- 1. Fritts reported that the selenium module produced a current "that is continuous, constant, and of considerable force."
- 2. So, Fritts created what was a low impact solar cell, but still, it was the beginning of photovoltaic solar panel innovation in America.
- 3. This cell achieved an energy conversion rate of 1 to 2 percent; most modern solar cells work at an efficiency of 15 to 20 percent.
- 4. Take a *light* step back to 1883 when New York inventor Charles Fritts created the first solar cell by coating selenium with a thin layer of gold.
- 5. That same year, a Russian scientist by the name of Aleksandr Stoletov created the first solar cell based on the photoelectric effect, which is when light falls on a material and electrons are released.

Answer key/Solution **Q.27** Directions for question (27): The passage given below is followed by four summaries. Choose the option that best captures the author's position. For many years, the experts have focused on self-esteem. Research has consistently shown that self-esteem is related to psychological wellbeing, suggesting that a positive self-image is an important ingredient in the recipe for a happy and successful life. Seeing this link between self-esteem and an array of desirable life outcomes, many parents bent over backwards to ensure that their children had positive views of themselves, teachers tried to provide feedback in ways that protected students' self-esteem, and many people became convinced that self-esteem should be widely promoted as a remedy for personal problems and social ills. 1 Due to researchers and their overzealous findings, many parents and teachers go out of their way to make students achieve self-esteem. 2 Parents and teachers see the link between self-esteem and success for their wards, and as a result they treat the achieving of self-esteem as the highest goal. 3 Self-esteem is held highly as a desirable virtue by many due to the long-standing belief that it is beneficial in multiple ways. 4 Researchers have shown for many years now that a positive sense of self or self-esteem gives children a higher possibility of success. FeedBack **■** Bookmark

**■** Bookmark

Answer key/Solution

#### 0.28

FeedBack

Directions for question (28): The four sentences (labelled 1, 2, 3, and 4) given in this question, when properly sequenced, form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence of four numbers as your answer.

- 1. There they were visible and audible at most times of day; occupying all the domains of land, sea and air; and in an abundance and diversity we can only dream of today.
- 2. This progression from daily familiarity to symbolic representation must be what Claude Lévi-Strauss had in mind in the much-quoted dictum: 'Animals are good to think with.'
- 3. Not surprising either, therefore, that they also populated people's minds and imaginations and re-emerged in their culture, language, myths and patterns of thought in some symbolic form.
- 4. Small wonder, then, that birds impressed their physical presence on people's daily lives, to a degree now hard to imagine.

FeedBack **■** Bookmark Answer key/Solution Q.29 Directions for question (29): Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out. 1. What is this thing we call meaning, and why might we need it so badly? 2. We fret about the 'nihilism' of this or that aspect of our culture. 3. How did this life get here? 4. When we lose a sense of meaning, we get depressed. 5. We fear meaninglessness. FeedBack **■** Bookmark Answer key/Solution Q.30 Directions for question (30): The passage given below is followed by four summaries. Choose the option that best captures the author's position. A study reviews Earth's rarest minerals, those found at five or fewer locations on the planet. Researchers divided the 2,500 rare minerals that they identified into four categories that relate to the conditions under which they form, how rare their ingredients are, how stable they are, and whether they come from poorly studied locations. The resulting catalogue will assist in determining where and how large certain rare minerals' reserves may be; it also will help geophysicists study the fundamental construction of Earth. 1 Geophysicists are reviewing the rarest minerals on Earth so that they can determine how they are formed and where they are reserved. 2 A study that reviewed the rarest minerals on Earth has the potential to enhance our understanding of the construction of Earth and mineral reserves. 3 D A certain review of the rarest minerals on Earth will help geophysicists determine the location of the mineral reserves, their size, and their fundamental construction. 4 Geophysicists are now trying to ascertain how large certain minerals' reserves are by trying to understand their fundamental construction.

**■** Bookmark

Answer key/Solution

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## 0.31

Directions for question (31): The four sentences (labelled 1, 2, 3, and 4) given in this question, when properly sequenced, form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence of four numbers as your answer.

- 1. Certainly all her progeny were feral.
- 2. Cats can "go wild" within a generation.
- 3. Once on the island and allowed to roam, Tibbles likely came and went at will.
- 4. Over time, she probably became more and more wild.

FeedBack

**■** Bookmark

Answer key/Solution

#### Q.32

Directions for question (32): Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

- 1. If the very definition of war involves a discussion reaching back 2,000 years, what of the concepts of modern war?
- 2. Was the slaughter of World War I due to a narrow concept of how to fight a war?
- 3. Did the Japanese learn western concepts of war and so adopt an unwinnable strategy in China?
- 4. The question of the origins and causes of our concept of war is not only interesting in itself, but has major implications for our armed forces.
- 5. Did the United States fail in Vietnam because of a flawed strategy, based on western concepts?

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**■** Bookmark

Answer key/Solution

## Q.33

Directions for question (33): The passage given below is followed by four summaries. Choose the option that best captures the author's position.

At the simplest level, deviance refers to something different from something else. Deviants are people not like us. They behave differently, or so many people think. But deviance extends beyond simple, everyday observations of differences among people and their behaviour. Some differences in styles of dress, for example, don't amount to deviance. Persons who wear a common style of clothing may still favour different colours without becoming deviant.

- 1 The definition of deviance is problematic as it doesn't refer to all everyday observations of difference.
- 2 Deviants are not like common people as they dress differently and have differences which are not normal.
- 3 Many people think that deviants behave differently; however, their deviance is not difficult to diagnose.

4 The definition of deviance is not simple as the behaviour goes beyond simple everyday observations. FeedBack **■** Bookmark Answer key/Solution Q.34 Directions for question (34): The four sentences (labelled 1, 2, 3, and 4) given in this question, when properly sequenced, form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence of four numbers as your answer. 1. It sounds like a fairly cut and dry murder case, but after going to trial, Kenneth Parks walked free. 2. Because all that evidence pointed to the unlikely and bewildering truth that Parks had been sleepwalking. 3. Thanks to a combination of a lack of motive, his consistent version of events, and data gathered from EEG readings, no charges were pressed against him. It remains one of the most remarkable cases of homicidal sleepwalking in history. FeedBack **■** Bookmark Answer key/Solution Sec 2 Directions for questions 35 to 38: Answer the questions on the basis of the information given below. While sitting idle at home, Nipun starts writing numbers from 1 to 64 in square boxes in a 8 × 8 chess board. The columns are labeled a to h from left to right and rows are numbered 1-8 from bottom to top such that the box in the first column and the bottom row is denoted by a1 and that in the second column and the bottom row by b1 and so on. He starts writing the numbers in all the central four boxes first i.e., d4, d5, e4 and e5, not necessarily in this order and continues writing the consecutive numbers next to each other in the other square boxes and finally he ends with writing number at a8. The numbers written in the corner square boxes are - 64, 57, 50 and 43, in any order. [Note:- If a number is written in any square box then the next number Nipun writes will be either to the left or right or top or bottom of that box, but not diagonally.] Q.35 Find the sum of all the numbers which will not change its position in any of its arrangements. 1 208 2 200 3 0 196 4 0 175

FeedBack

**■** Bookmark

Answer key/Solution

Directions for questions 35 to 38: Answer the questions on the basis of the information given below.

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#### Q.36

If two prime numbers are written next to each other row wise, column wise or diagonally, then they are called neighbours. How many prime numbers are not neighbours?

FeedBack

**■** Bookmark

Answer key/Solution

Directions for questions 35 to 38: Answer the questions on the basis of the information given below.

While sitting idle at home, Nipun starts writing numbers from 1 to 64 in square boxes in a 8 × 8 chess board. The columns are labeled a to h from left to right and rows are numbered 1-8 from bottom to top such that the box in the first column and the bottom row is denoted by a1 and that in the second column and the bottom row by b1 and so on. He starts writing the numbers in all the central four boxes first i.e., d4, d5, e4 and e5, not necessarily in this order and continues writing the consecutive numbers next to each other in the other square boxes and finally he ends with writing number at a8. The numbers written in the corner square boxes are – 64, 57, 50 and 43, in any order. [Note:- If a number is written in any square box then the next number Nipun writes will be either to the left or right or top or bottom of that box, but not diagonally.]

#### Q.37

How many numbers in the chess board are middle numbers, where the middle number is equal to the average of its adjacent two numbers (row wise or column wise)?

FeedBack

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While sitting idle at home, Nipun starts writing numbers from 1 to 64 in square boxes in a  $8 \times 8$  chess board. The columns are labeled a to h from left to right and rows are numbered 1-8 from bottom to top such that the box in the first column and the bottom row is denoted by a1 and that in the second column and the bottom row by b1 and so on. He starts writing the numbers in all the central four boxes first i.e., d4, d5, e4 and e5, not necessarily in this order and continues writing the consecutive numbers next to each other in the other square boxes and finally he ends with writing number at a8. The numbers written in the corner square boxes are -64, 57, 50 and 43, in any order. [Note:- If a number is written in any square box then the next number Nipun writes will be either to the left or right or top or bottom of that box, but not diagonally.]

Q.38 If all the numbers in the main diagonal are converted into base system 8, then how many ti in those numbers after conversion?	imes 1 will be used as digit
1 🔍 5	
2 <b>2</b>	
3 <b>8</b>	
4 🗖 7	
FeedBack	<b>■</b> Bookmark
	& Answer key/Solution

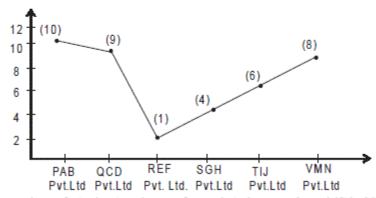
Each of ten students - Akbar, Birbal, Chatur, Dhritrastra, Eklawya, Faizan, Gems, Hitler, Imara and Jalan - joined eight companies - PAB Pvt. Ltd., QCD Pvt. Ltd., REF Pvt. Ltd., SGH Pvt. Ltd., TIJ Pvt. ltd., UKL Pvt. Ltd., VMN Pvt. Ltd. and WOP Pvt. Ltd. as consultant. They perform their duties either in morning shift or in evening shift.

The numerical value of some symbols, \$,  $\in$ , @ and  $\infty$  are 1, 2, 2 and 4 respectively. The number of companies in which these students perform duty in evening session is represented as below:-

Akbar	-	∈ × @ + \$
Birbal	-	∈ + @
Chatur	-	∞ ÷ @ – \$
Dhritrastra	-	\$ × ∈
Eklavya	-	∈ ÷ @ − \$
Faizan	-	∞ × @ – \$
Gems	-	∈ × @ + \$
Hitler	-	@ × ∈ ÷ \$
Imara	-	∈ × @ − \$
Jalan	-	@ × ∈ + @

[Note:- Here, +, -, × and + represent addition, subtraction, multiplication and division respectively.]

The line graph given below shows the number of students who perform duty in morning shift in the companies shown below:-



It is also known that the number of students who perform duty in morning shift in UKL Pvt. Ltd. is more than that in WOP Pvt. Ltd.

#### 0.39

Who perform duty in evening shift in UKL Pvt. Ltd.?

- 1 Akbar, Birbal, Chatur, Dhritrastra, Eklavya and Imara.
- 2 Akbar, Birbal, Chatur, Dhritrastra, Eklavya Imara and Jalan.
- 3 Akbar, Birbal, Chatur, Dhritrastra, Eklavya and Jalan.
- 4 None of these.

FeedBack

**■** Bookmark

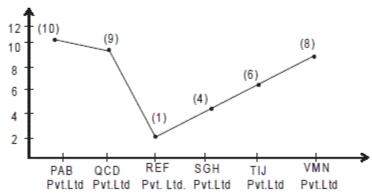
Each of ten students - Akbar, Birbal, Chatur, Dhritrastra, Eklawya, Faizan, Gems, Hitler, Imara and Jalan - joined eight companies - PAB Pvt. Ltd., QCD Pvt. Ltd., REF Pvt. Ltd., SGH Pvt. Ltd., TIJ Pvt. ltd., UKL Pvt. Ltd., VMN Pvt. Ltd. and WOP Pvt. Ltd. as consultant. They perform their duties either in morning shift or in evening shift.

The numerical value of some symbols, \$,  $\in$ , @ and  $\infty$  are 1, 2, 2 and 4 respectively. The number of companies in which these students perform duty in evening session is represented as below:-

-	∈ × @ + \$
-	∈ +@
-	∞ ÷ @ – \$
-	\$ × ∈
-	∈ ÷ @ − \$
-	∞ × @ – \$
-	∈ × @ + \$
-	@ × ∈ ÷ \$
-	∈ × @ − \$
-	@ × ∈ + @
	- - - - - - - -

[Note:- Here, +, -, × and + represent addition, subtraction, multiplication and division respectively.]

The line graph given below shows the number of students who perform duty in morning shift in the companies shown below:-



It is also known that the number of students who perform duty in morning shift in UKL Pvt. Ltd. is more than that in WOP Pvt. Ltd.

### Q.40 How many friends perform morning duty in PAB Pvt. Ltd. and QCD Pvt. Ltd. but evening duty in SGH Pvt. Ltd.?

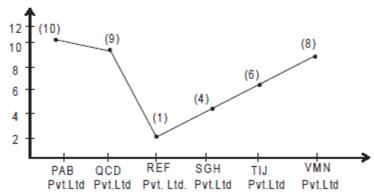
Each of ten students - Akbar, Birbal, Chatur, Dhritrastra, Eklawya, Faizan, Gems, Hitler, Imara and Jalan - joined eight companies - PAB Pvt. Ltd., QCD Pvt. Ltd., REF Pvt. Ltd., SGH Pvt. Ltd., TIJ Pvt. ltd., UKL Pvt. Ltd., VMN Pvt. Ltd. and WOP Pvt. Ltd. as consultant. They perform their duties either in morning shift or in evening shift.

The numerical value of some symbols, \$,  $\in$ , @ and  $\infty$  are 1, 2, 2 and 4 respectively. The number of companies in which these students perform duty in evening session is represented as below:-

Akbar	-	∈ × @ + \$
Birbal	-	∈ + @
Chatur	-	∞ ÷ @ – \$
Dhritrastra	-	\$ × ∈
Eklavya	-	∈ ÷ @ − \$
Faizan	-	∞ × @ – \$
Gems	-	∈ × @ + \$
Hitler	-	@ × ∈ ÷ \$
Imara	-	∈ × @ − \$
Jalan	-	@ × ∈ + @

[Note:- Here, +, -, × and + represent addition, subtraction, multiplication and division respectively.]

The line graph given below shows the number of students who perform duty in morning shift in the companies shown below:-



It is also known that the number of students who perform duty in morning shift in UKL Pvt. Ltd. is more than that in WOP Pvt. Ltd.

## Q.41 In how many companies did Gems and Hitler perform morning duty but Faizan performs evening duty?

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4 🔘 5

**■** Bookmark

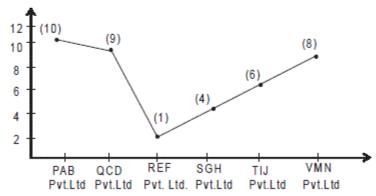
Each of ten students - Akbar, Birbal, Chatur, Dhritrastra, Eklawya, Faizan, Gems, Hitler, Imara and Jalan - joined eight companies - PAB Pvt. Ltd., QCD Pvt. Ltd., REF Pvt. Ltd., SGH Pvt. Ltd., TIJ Pvt. ltd., UKL Pvt. Ltd., VMN Pvt. Ltd. and WOP Pvt. Ltd. as consultant. They perform their duties either in morning shift or in evening shift.

The numerical value of some symbols, \$,  $\in$ , @ and  $\infty$  are 1, 2, 2 and 4 respectively. The number of companies in which these students perform duty in evening session is represented as below:-

Akbar	-	∈ × @ + \$
Birbal	-	∈ +@
Chatur	-	∞ ÷ @ – \$
Dhritrastra	-	\$ × ∈
Eklavya	-	∈ ÷@−\$
Faizan	-	∞ × @ – \$
Gems	-	∈ × @ + \$
Hitler	-	@ × ∈ ÷ \$
Imara	-	∈ × @ − \$
Jalan	-	@ × ∈ + @

[Note:- Here, +, -, × and + represent addition, subtraction, multiplication and division respectively.]

The line graph given below shows the number of students who perform duty in morning shift in the companies shown below:-

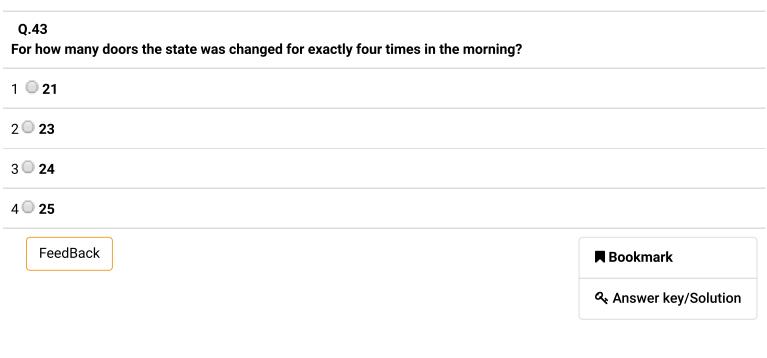


It is also known that the number of students who perform duty in morning shift in UKL Pvt. Ltd. is more than that in WOP Pvt. Ltd.

Q.42
Who performed morning duty in UKL Pvt. Ltd. and evening duty in WOP Pvt. Ltd.?

Who performed morning duty in UKL Pvt. Ltd. and evening duty in WOP Pvt. Ltd.?	
1  Gems	
2 Hitler	
3 Paizan	
4 Dhritrastra	
FeedBack	<b>■</b> Bookmark
	ج Answer key/Solution

There are eighty workers - w<sub>1</sub>, w<sub>2</sub>, w<sub>3</sub>,..., w<sub>80</sub> - in a factory, producing an automobile part. To go towards the production area, the workers need to pass through a long corridor, stretching from North to South, with 100 doors - d<sub>1</sub>, d<sub>2</sub>,  $d_3$ ..... $d_{100}$  - side by side, on East wall of the corridor, such that the first door is  $d_1$ , then the door  $d_2$  and so on till the last door  $d_{100}$  at the south end of corridor. Initially, all the doors are closed. The workers pass through the corridor, one by one, starting with the worker w<sub>80</sub>, then worker w<sub>79</sub>, followed by w<sub>78</sub> and so on till worker w<sub>1</sub>. When a worker passes through the corridor, he changes the state i.e., open or close, of doors which are multiple of the number i in his w<sub>i</sub> i.e., w<sub>1</sub> will change the state of all the doors, w<sub>2</sub> will change the state of doors - d<sub>2</sub>, d<sub>4</sub>, d<sub>6</sub>,..., d<sub>100</sub> and similarly w<sub>80</sub> will change the state of d<sub>80</sub> only. By changing the state of the door it is meant that if the door is open, he closes it and if the door is close, he opens it. They do this twice a day, once in the morning while going to the production area and once in the evening while coming back from the production area. Assume that no other person passes through the corridor during the day and no worker passes through the corridor at any other time.



Directions for questions 43 to 46: Answer the questions on the basis of the information given below.

There are eighty workers - w<sub>1</sub>, w<sub>2</sub>, w<sub>3</sub>,..., w<sub>80</sub> - in a factory, producing an automobile part. To go towards the production area, the workers need to pass through a long corridor, stretching from North to South, with 100 doors - d<sub>1</sub>, d<sub>2</sub>,  $d_3$ ..... $d_{100}$  - side by side, on East wall of the corridor, such that the first door is  $d_1$ , then the door  $d_2$  and so on till the last door  $d_{100}$  at the south end of corridor. Initially, all the doors are closed. The workers pass through the corridor, one by one, starting with the worker  $w_{80}$ , then worker  $w_{79}$ , followed by  $w_{78}$  and so on till worker  $w_1$ . When a worker passes through the corridor, he changes the state i.e., open or close, of doors which are multiple of the number i in his  $w_i$  i.e.,  $w_1$  will change the state of all the doors,  $w_2$  will change the state of doors -  $d_2$ ,  $d_4$ ,  $d_6$ ,...,  $d_{100}$  and similarly  $w_{80}$ will change the state of  $d_{80}$  only. By changing the state of the door it is meant that if the door is open, he closes it and if the door is close, he opens it. They do this twice a day, once in the morning while going to the production area and once in the evening while coming back from the production area. Assume that no other person passes through the corridor during the day and no worker passes through the corridor at any other time.



For how many doors the state was changed for the maximum number of times in a day? FeedBack **■** Bookmark Answer key/Solution

There are eighty workers -  $w_1$ ,  $w_2$ ,  $w_3$ ,...,  $w_{80}$  - in a factory, producing an automobile part. To go towards the production area, the workers need to pass through a long corridor, stretching from North to South, with 100 doors -  $d_1$ ,  $d_2$ ,  $d_3$ ........ $d_{100}$  - side by side, on East wall of the corridor, such that the first door is  $d_1$ , then the door  $d_2$  and so on till the last door  $d_{100}$  at the south end of corridor. Initially, all the doors are closed. The workers pass through the corridor, one by one, starting with the worker  $w_{80}$ , then worker  $w_{79}$ , followed by  $w_{78}$  and so on till worker  $w_1$ . When a worker passes through the corridor, he changes the state i.e., open or close, of doors which are multiple of the number i in his  $w_i$  i.e.,  $w_1$  will change the state of all the doors,  $w_2$  will change the state of doors -  $d_2$ ,  $d_4$ ,  $d_6$ ,...,  $d_{100}$  and similarly  $w_{80}$  will change the state of  $d_{80}$  only. By changing the state of the door it is meant that if the door is open, he closes it and if the door is close, he opens it. They do this twice a day, once in the morning while going to the production area and once in the evening while coming back from the production area. Assume that no other person passes through the corridor during the day and no worker passes through the corridor at any other time.

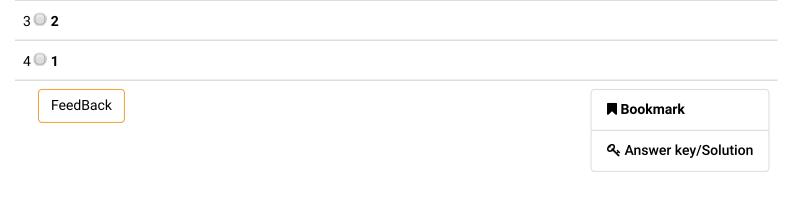
Q.45 What is the maximum number of times for which the st	ate of any door is changed in a day?
<b>2</b> 5	
◎ 20	
<b>24</b>	
◎ 23	
FeedBack	<b>■</b> Bookmark
	Answer key/Solution

Directions for questions 43 to 46: Answer the questions on the basis of the information given below.

There are eighty workers -  $w_1$ ,  $w_2$ ,  $w_3$ ,...,  $w_{80}$  - in a factory, producing an automobile part. To go towards the production area, the workers need to pass through a long corridor, stretching from North to South, with 100 doors -  $d_1$ ,  $d_2$ ,  $d_3$ ....... $d_{100}$  - side by side, on East wall of the corridor, such that the first door is  $d_1$ , then the door  $d_2$  and so on till the last door  $d_{100}$  at the south end of corridor. Initially, all the doors are closed. The workers pass through the corridor, one by one, starting with the worker  $w_{80}$ , then worker  $w_{79}$ , followed by  $w_{78}$  and so on till worker  $w_1$ . When a worker passes through the corridor, he changes the state i.e., open or close, of doors which are multiple of the number i in his  $w_i$  i.e.,  $w_1$  will change the state of all the doors,  $w_2$  will change the state of doors -  $d_2$ ,  $d_4$ ,  $d_6$ ,...,  $d_{100}$  and similarly  $w_{80}$  will change the state of  $d_{80}$  only. By changing the state of the door it is meant that if the door is open, he closes it and if the door is close, he opens it. They do this twice a day, once in the morning while going to the production area and once in the evening while coming back from the production area. Assume that no other person passes through the corridor during the day and no worker passes through the corridor at any other time.

# Q.46 The state of how many doors was changed only twice in a day?

1 **3**2 **4** 



A cube is first painted using the 3 available colors - Red, Blue and Green - such that each face is painted with one of the 3 colors, and then it is cut into 216 smaller cubes of equal dimensions. While painting the cube, followings restrictions are to be followed:

- i. There is always at least one color which is painted on more number of faces than that of green color.
- ii. No two adjacent faces are painted blue.
- iii. If at least 3 faces are painted red, then at least 1 face must be painted with blue.

### Q.47 In how many different ways can the cube be painted?

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Answer key/Solution

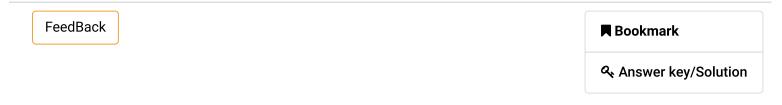
Directions for questions 47 to 50: Answer the questions on the basis of the information given below.

A cube is first painted using the 3 available colors - Red, Blue and Green - such that each face is painted with one of the 3 colors, and then it is cut into 216 smaller cubes of equal dimensions. While painting the cube, followings restrictions are to be followed:

- i. There is always at least one color which is painted on more number of faces than that of green color.
- ii. No two adjacent faces are painted blue.
- iii. If at least 3 faces are painted red, then at least 1 face must be painted with blue.

#### 0.48

What can be the maximum number of smaller cubes with both red and blue color painted on their faces?



A cube is first painted using the 3 available colors - Red, Blue and Green - such that each face is painted with one of the 3 colors, and then it is cut into 216 smaller cubes of equal dimensions. While painting the cube, followings restrictions are to be followed:

- i. There is always at least one color which is painted on more number of faces than that of green color.
- ii. No two adjacent faces are painted blue.
- iii. If at least 3 faces are painted red, then at least 1 face must be painted with blue.

#### Q.49

If the number of smaller cubes painted with red color on at least one of its faces is minimum possible, then what is the number of smaller cubes with green color painted on their faces?

FeedBack

RedBack

Answer key/Solution

Directions for questions 47 to 50: Answer the questions on the basis of the information given below.

A cube is first painted using the 3 available colors - Red, Blue and Green - such that each face is painted with one of the 3 colors, and then it is cut into 216 smaller cubes of equal dimensions. While painting the cube, followings restrictions are to be followed:

- i. There is always at least one color which is painted on more number of faces than that of green color.
- ii. No two adjacent faces are painted blue.
- iii. If at least 3 faces are painted red, then at least 1 face must be painted with blue.

#### Q.50

What is the maximum possible sum of the number of smaller cubes with 3 faces painted in 3 different colors and the number of smaller cubes with only red color on them?

FeedBack

RedBack

Answer key/Solution

Five Political parties - AIC, BLP, CJP, DLP and ENP contested election in the year 2018 for 400 seats. Each seat was won by exactly one party and it was not necessary that all parties contested election from all the seats. Votes gained and seat conversion ratio of each party are shown below:-

Party	Vote gained	Seat conversion ratio
AIC	15%	2 37500
BLP	20%	0.00003
CJP	30%	<u>1</u> 30000
DLP	10%	0.00006
ENP	25%	0.00004

Number of seats won Number of votes gained [ Seat conversion ratio =

Number of seats won by a party Strike rate (in %) =  $\frac{1}{1}$  Number of seats from where that particular party contested the election

The strike rate for each party was more than or equal to 30% but less than or equal to 80%. The overall strike rate for all five parties together was not more than 40%.

(Note:- Strike rate is always a multiple of 10.)

The additional information is also given

- (i) No party contested election from less than 100 seats.
- (ii) The number of seats contested by party AIC was not less than that by CJP. Party ENP had contested from

maximum number of seats among all parties. The number of seats contested by the party B DLP.	BLP was less than that by
Q.51 The party that had minimum strike rate was	
1 • AIC	
2  BLP	
3 <b>CJP</b>	
4 O DLP	
FeedBack	<b>■</b> Bookmark
	م Answer key/Solution

Five Political parties - AIC, BLP, CJP, DLP and ENP contested election in the year 2018 for 400 seats. Each seat was won by exactly one party and it was not necessary that all parties contested election from all the seats. Votes gained and seat conversion ratio of each party are shown below:-

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AIC	15%	2 37500
BLP	20%	0.00003
CJP	30%	<u>1</u> 30000
DLP	10%	0.00006
ENP	25%	0.00004

[ Seat conversion ratio =  $\frac{\text{Number of seats won}}{\text{Number of votes gained}}$ ]

Strike rate (in %) =  $\frac{\text{Number of seats won by a party}}{\text{Number of seats from where that particular party contested the election}} \times 100$ 

The strike rate for each party was more than or equal to 30% but less than or equal to 80%. The overall strike rate for all five parties together was not more than 40%.

(Note:- Strike rate is always a multiple of 10.)

The additional information is also given

- (i) No party contested election from less than 100 seats.
- (ii) The number of seats contested by party AIC was not less than that by CJP. Party ENP had contested from maximum number of seats among all parties. The number of seats contested by the party BLP was less than that by DLP.

DLP.	•
Q.52 How many party/parties had strike rate equal to 40%?	
1 • 1	
2 <b>2</b>	
3 <b>○ 3</b>	
4 C Either (2) or (3)	
FeedBack	<b>■</b> Bookmark

Five Political parties - AIC, BLP, CJP, DLP and ENP contested election in the year 2018 for 400 seats. Each seat was won by exactly one party and it was not necessary that all parties contested election from all the seats. Votes gained and seat conversion ratio of each party are shown below:-

Party	Vote gained	Seat conversion ratio
AIC	15%	2 37500
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[ Seat conversion ratio =  $\frac{\text{Number of seats won}}{\text{Number of votes gained}}$ ]

Strike rate (in %) =  $\frac{\text{Number of seats won by a party}}{\text{Number of seats from where that particular party contested the election}} \times 100$ 

The strike rate for each party was more than or equal to 30% but less than or equal to 80%. The overall strike rate for all five parties together was not more than 40%.

(Note:- Strike rate is always a multiple of 10.)

The additional information is also given

- (i) No party contested election from less than 100 seats.
- (ii) The number of seats contested by party AIC was not less than that by CJP. Party ENP had contested from maximum number of seats among all parties. The number of seats contested by the party BLP was less than that by

Q.53
The difference between the number of votes gained by the party AIC and BLP was

1 2500000
2 500000
3 1500000
4 None of these

Five Political parties - AIC, BLP, CJP, DLP and ENP contested election in the year 2018 for 400 seats. Each seat was won by exactly one party and it was not necessary that all parties contested election from all the seats. Votes gained and seat conversion ratio of each party are shown below:-

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The strike rate for each party was more than or equal to 30% but less than or equal to 80%. The overall strike rate for all five parties together was not more than 40%.

(Note:- Strike rate is always a multiple of 10.)

The additional information is also given

- (i) No party contested election from less than 100 seats.
- (ii) The number of seats contested by party AIC was not less than that by CJP. Party ENP had contested from maximum number of seats among all parties. The number of seats contested by the party BLP was less than that by DLP.

Q.54

By how much percentage was the number of seats won by BLP and CJP together less than that by AIC and CJP together?

1 0 10%

2 20%

 $3 \frac{1}{3} \frac{1}{3} \%$ 

4 0 11 1 %

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In T-20 cricket world cup tournament, a total of ten teams participated - India, Australia, England, New Zealand, Pakistan, Afghanistan, Srilanka, South Africa, Bangladesh and West Indies. The tournament is played in 2 stages - stage I which follows Round Robin format where each team plays with all the other teams once and the top 4 teams on the basis of the points earned, qualify to stage II, which follows knock out format i.e., semi-finals and finals. The winner of the finals is declared as the champion. In stage I, a team gets 2 points for a win, no points are awarded for a loss and one point each is awarded to the 2 teams in case a match ends in no result. Following is the table indicating points when only 3 matches are left to be played in stage I:

Team	Number of matches played	Number of wins	Number of matches end in 'No Result'	Points
India	9	7	0	14
Australia	8	6	0	12
New Zealand	9	5	1	11
England	8	5	0	10
Pakistan	8	4	1	9
West Indies	7	4	0	8
Bangladesh	8	4	0	8
South Africa	9	3	0	6
Srilanka	9	2	0	4
Afghanistan	9	1	0	2

Further, it is known that both Australia and West Indies did beat England in their respective opening match. After the completion of all matches of stage I, if two teams end with same points, then there are other criteria to decide the standings of the team. But no 2 teams can have the same standing (i.e., same position/Rank). In stage II, one team always wins and the other team loses in a match i.e., no match ends in 'No Result'. The two semi-finals played are semi-final I between 1st and 4th placed teams of stage I and semi-final II between 2nd and 3rd placed teams of stage I.

# Q.55 If West Indies and Pakistan won all their remaining matches, then which of the following team (s) would definitely never make it to stage II?

never make it to stage II?	
1 New Zealand	
2  Bangladesh	
3 C England	
4  Both (2) and (3)	
FeedBack	<b>■</b> Bookmark
	≪ Answer key/Solution

In T-20 cricket world cup tournament, a total of ten teams participated - India, Australia, England, New Zealand, Pakistan, Afghanistan, Srilanka, South Africa, Bangladesh and West Indies. The tournament is played in 2 stages - stage I which follows Round Robin format where each team plays with all the other teams once and the top 4 teams on the basis of the points earned, qualify to stage II, which follows knock out format i.e., semi-finals and finals. The winner of the finals is declared as the champion. In stage I, a team gets 2 points for a win, no points are awarded for a loss and one point each is awarded to the 2 teams in case a match ends in no result. Following is the table indicating points when only 3 matches are left to be played in stage I:

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West Indies	7	4	0	8
Bangladesh	8	4	0	8
South Africa	9	3	0	6
Srilanka	9	2	0	4
Afghanistan	9	1	0	2

Further, it is known that both Australia and West Indies did beat England in their respective opening match. After the completion of all matches of stage I, if two teams end with same points, then there are other criteria to decide the standings of the team. But no 2 teams can have the same standing (i.e., same position/Rank). In stage II, one team always wins and the other team loses in a match i.e., no match ends in 'No Result'. The two semi-finals played are semi-final I between 1st and 4th placed teams of stage I and semi-final II between 2nd and 3rd placed teams of stage I.

Q.56
If England won its remaining match, then for how many teams could it be possible to finish at 4th place after stage I?

FeedBack

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In T-20 cricket world cup tournament, a total of ten teams participated - India, Australia, England, New Zealand, Pakistan, Afghanistan, Srilanka, South Africa, Bangladesh and West Indies. The tournament is played in 2 stages - stage I which follows Round Robin format where each team plays with all the other teams once and the top 4 teams on the basis of the points earned, qualify to stage II, which follows knock out format i.e., semi-finals and finals. The winner of the finals is declared as the champion. In stage I, a team gets 2 points for a win, no points are awarded for a loss and one point each is awarded to the 2 teams in case a match ends in no result. Following is the table indicating points when only 3 matches are left to be played in stage I:

Team	Number of matches played	Number of wins	Number of matches end in 'No Result'	Points
India	9	7	0	14
Australia	8	6	0	12
New Zealand	9	5	1	11
England	8	5	0	10
Pakistan	8	4	1	9
West Indies	7	4	0	8
Bangladesh	8	4	0	8
South Africa	9	3	0	6
Srilanka	9	2	0	4
Afghanistan	9	1	0	2

Further, it is known that both Australia and West Indies did beat England in their respective opening match. After the completion of all matches of stage I, if two teams end with same points, then there are other criteria to decide the standings of the team. But no 2 teams can have the same standing (i.e., same position/Rank). In stage II, one team always wins and the other team loses in a match i.e., no match ends in 'No Result'. The two semi-finals played are semi-final I between 1st and 4th placed teams of stage I and semi-final II between 2nd and 3rd placed teams of stage I.

Q.57
If semi-final I is played between Australia and New Zealand then against which team did India play semi-final II?

1 England
2 Pakistan or England
3 West Indies or Pakistan

4 England or West Indies

FeedBack

RedBack

Answer key/Solution

In T-20 cricket world cup tournament, a total of ten teams participated - India, Australia, England, New Zealand, Pakistan, Afghanistan, Srilanka, South Africa, Bangladesh and West Indies. The tournament is played in 2 stages - stage I which follows Round Robin format where each team plays with all the other teams once and the top 4 teams on the basis of the points earned, qualify to stage II, which follows knock out format i.e., semi-finals and finals. The winner of the finals is declared as the champion. In stage I, a team gets 2 points for a win, no points are awarded for a loss and one point each is awarded to the 2 teams in case a match ends in no result. Following is the table indicating points when only 3 matches are left to be played in stage I:

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Srilanka	9	2	0	4
Afghanistan	9	1	0	2

Further, it is known that both Australia and West Indies did beat England in their respective opening match. After the completion of all matches of stage I, if two teams end with same points, then there are other criteria to decide the standings of the team. But no 2 teams can have the same standing (i.e., same position/Rank). In stage II, one team always wins and the other team loses in a match i.e., no match ends in 'No Result'. The two semi-finals played are semi-final I between 1st and 4th placed teams of stage I and semi-final II between 2nd and 3rd placed teams of stage I.

Q.58
Which of the following events must happen for a possibility of Bangladesh to qualify to stage II?

1 Pakistan must lose its last match.

2 England must lose its last match.

3 West Indies must lose both its remaining matches.

4 West Indies must not win both its matches.

FeedBack

RedBack

Answer key/Solution

Directions for questions 59 to 62: Answer the questions on the basis of the information given below.

In a class of 'n' students, a test was conducted, the maximum marks for which was 1000. No student got the maximum possible marks and the marks scored by each student was positive integer such that the marks of any two students were co-prime and the marks of no student was a prime number.

Q.59 What could be the maximum number of students in the class?	
1 🔘 9	
2 • 11	
3 • 12	
4 🔍 10	
FeedBack	<b>■</b> Bookmark
	ه Answer key/Solution
Directions for questions 59 to 62: Answer the questions on the basis of the information of the class of 'n' students, a test was conducted, the maximum marks for which was 1 possible marks and the marks scored by each student was positive integer such that were co-prime and the marks of no student was a prime number.	000. No student got the maximum
Q.60 What could be the maximum number of students who scored more than 100 marks in	n the test?
1 0 11	if the test:
2 7	
3 0 10	
4 0 8	
FeedBack	<b>■</b> Bookmark
	ا Answer key/Solution
Directions for questions 59 to 62: Answer the questions on the basis of the information a class of 'n' students, a test was conducted, the maximum marks for which was 1	000. No student got the maximum
possible marks and the marks scored by each student was positive integer such that were co-prime and the marks of no student was a prime number.	the marks of any two students
Q.61 What could be the maximum value of the second highest marks scored by a student	when the number of students in

the class is maximum?

1 998

2 841	
3 🔍 864	
4 🔍 900	
FeedBack	<b>■</b> Bookmark
	م Answer key/Solution
Directions for questions 59 to 62: Answer the questions on the basis of the information	given below.
In a class of 'n' students, a test was conducted, the maximum marks for which was 100 possible marks and the marks scored by each student was positive integer such that the were co-prime and the marks of no student was a prime number.	_
Q.62 How many different possible values can the marks of the student with the second lowe 100 and when the number of students in the class is maximum possible?	st marks take, if it is less than
1 • 7	
2 🔍 8	
3 ◎ 9	
4 🔍 10	
FeedBack	<b>■</b> Bookmark
	م Answer key/Solution

Eight bottles of softdrinks - Coke, Thums up, Pepsi, Maaza, Sprite, Limca, Fanta and Mirinda - having cost Rs. 10, Rs. 11, Rs. 12, Rs. 13, Rs. 14, Rs. 15, Rs. 16 and Rs. 17, not necessarily in that order, were kept in a row on a table. Maaza and Limca were kept on even numbered positions. Fanta, having cost of Rs. 13, was kept immediate right to the softdrink having cost of Rs. 11 and immediate left of Thums up. The cost of Coke was neither Rs. 12 nor Rs. 15. Only Pepsi bottle was kept between the bottles that cost Rs. 10 and Rs. 14. Four bottles were kept between Coke bottle and the softdrink which costs Rs.11. Neither Pepsi nor Sprite costs Rs.16. Bottles which cost Rs. 12 and Rs.15 were kept on two successive positions. Thums up was kept on a position that was left to the position on which Sprite was kept.

Q.63
Which of the following softdrinks cost maximum?

1 Thums up

2 Pepsi	
3 Mirinda	
4 Data insufficient	
FeedBack	<b>■</b> Bookmark
	م Answer key/Solution

Eight bottles of softdrinks - Coke, Thums up, Pepsi, Maaza, Sprite, Limca, Fanta and Mirinda - having cost Rs. 10, Rs. 11, Rs. 12, Rs. 13, Rs. 14, Rs. 15, Rs. 16 and Rs. 17, not necessarily in that order, were kept in a row on a table. Maaza and Limca were kept on even numbered positions. Fanta, having cost of Rs. 13, was kept immediate right to the softdrink having cost of Rs. 11 and immediate left of Thums up. The cost of Coke was neither Rs. 12 nor Rs. 15. Only Pepsi bottle was kept between the bottles that cost Rs. 10 and Rs. 14. Four bottles were kept between Coke bottle and the softdrink which costs Rs.11. Neither Pepsi nor Sprite costs Rs.16. Bottles which cost Rs. 12 and Rs.15 were kept on two successive positions. Thums up was kept on a position that was left to the position on which Sprite was kept.

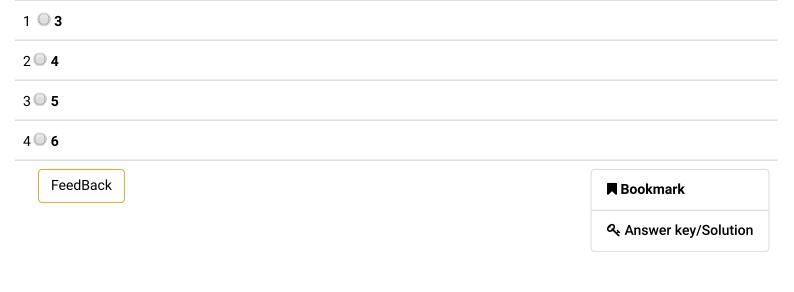


Directions for questions 63 to 66: Answer the questions on the basis of the information given below.

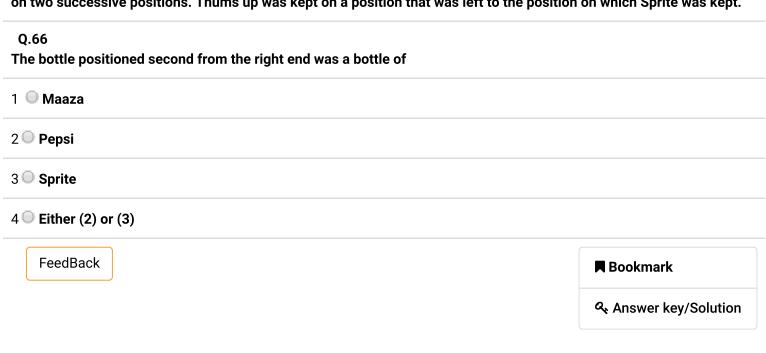
Eight bottles of softdrinks - Coke, Thums up, Pepsi, Maaza, Sprite, Limca, Fanta and Mirinda - having cost Rs. 10, Rs. 11, Rs. 12, Rs. 13, Rs. 14, Rs. 15, Rs. 16 and Rs. 17, not necessarily in that order, were kept in a row on a table. Maaza and Limca were kept on even numbered positions. Fanta, having cost of Rs. 13, was kept immediate right to the softdrink having cost of Rs. 11 and immediate left of Thums up. The cost of Coke was neither Rs. 12 nor Rs. 15. Only Pepsi bottle was kept between the bottles that cost Rs. 10 and Rs. 14. Four bottles were kept between Coke bottle and the softdrink which costs Rs.11. Neither Pepsi nor Sprite costs Rs.16. Bottles which cost Rs. 12 and Rs.15 were kept on two successive positions. Thums up was kept on a position that was left to the position on which Sprite was kept.

Q.65

For how many soft drinks can we determine the exact positions at which they were kept?



Eight bottles of softdrinks - Coke, Thums up, Pepsi, Maaza, Sprite, Limca, Fanta and Mirinda - having cost Rs. 10, Rs. 11, Rs. 12, Rs. 13, Rs. 14, Rs. 15, Rs. 16 and Rs. 17, not necessarily in that order, were kept in a row on a table. Maaza and Limca were kept on even numbered positions. Fanta, having cost of Rs. 13, was kept immediate right to the softdrink having cost of Rs. 11 and immediate left of Thums up. The cost of Coke was neither Rs. 12 nor Rs. 15. Only Pepsi bottle was kept between the bottles that cost Rs. 10 and Rs. 14. Four bottles were kept between Coke bottle and the softdrink which costs Rs.11. Neither Pepsi nor Sprite costs Rs.16. Bottles which cost Rs. 12 and Rs.15 were kept on two successive positions. Thums up was kept on a position that was left to the position on which Sprite was kept.



#### Sec 3

#### Q.67

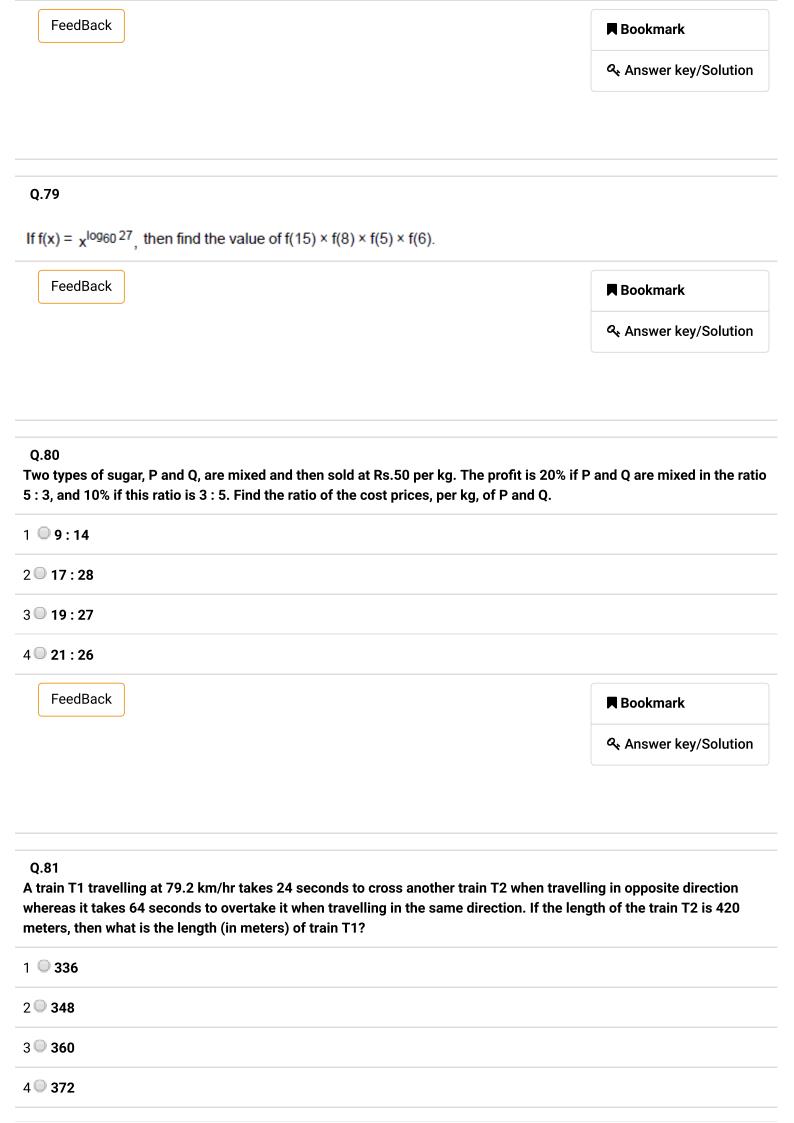
A Quantitative Aptitude faculty gave a test to a class in which 30% of the students are graduates and 70% are non-graduates. The average score of the class was 91. All the graduates received the same score, and the average score of the non-graduates was 88. What score did each of the graduates receive in the test?

FeedBack	<b>■</b> Bookmark
	ه Answer key/Solution
Q.68  Every day on his way to college, Supandi crosses a bus coming from the opposite directi way. One day Supandi was late by 15 minutes and as a result, he crossed the bus five minutes. What is the ratio of the speed of the bus to that of Supandi?	
1 3:2	
2 <b>2:1</b>	
3 <b>3:1</b>	
4 🔍 5:2	
FeedBack	<b>■</b> Bookmark
	م Answer key/Solution
Q.69 In the figure shown below, two identical squares are inscribed in a rectangle. If the perimorm, then what is the perimeter (in cm) of each square?	neter of the rectangle is 18√2
FeedBack	<b>■</b> Bookmark
	م Answer key/Solution
Q.70 If n is a positive integer, then what is the remainder when $(7^{(4n+3)} \times 6^n)$ is divided by 10?	
1 0 1	
2 <b>2</b>	
3 • 4	

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	م Answer key/Solution
Q.71 an examination comprising T questions, Arif correctly solve uestions, he answered one-fourth correctly. If he was able to verall, how many possible values can T assume?	•
FeedBack	<b>■</b> Bookmark
	م Answer key/Solution
tank of 325 liter capacity has two inlet pipes. The tank gets ours less than the 2nd pipe. If the first pipe was open as longing as the first pipe, then the pipes would deliver equal quant	as the second pipe and the second pipe was open as ities of water. When the two pipes are opened
tank of 325 liter capacity has two inlet pipes. The tank gets ours less than the 2nd pipe. If the first pipe was open as longing as the first pipe, then the pipes would deliver equal quant imultaneously for equal number of hours, the tank gets compipe kept open?	as the second pipe and the second pipe was open as ities of water. When the two pipes are opened
Q.72 A tank of 325 liter capacity has two inlet pipes. The tank gets tours less than the 2nd pipe. If the first pipe was open as long ong as the first pipe, then the pipes would deliver equal quant imultaneously for equal number of hours, the tank gets complipe kept open?  12 hours  15 hours	as the second pipe and the second pipe was open as ities of water. When the two pipes are opened
tank of 325 liter capacity has two inlet pipes. The tank gets ours less than the 2nd pipe. If the first pipe was open as long ong as the first pipe, then the pipes would deliver equal quant imultaneously for equal number of hours, the tank gets compipe kept open?  12 hours  5 hours	as the second pipe and the second pipe was open as ities of water. When the two pipes are opened
tank of 325 liter capacity has two inlet pipes. The tank gets ours less than the 2nd pipe. If the first pipe was open as long ong as the first pipe, then the pipes would deliver equal quant imultaneously for equal number of hours, the tank gets compipe kept open?  12 hours  15 hours  10 hours	as the second pipe and the second pipe was open as ities of water. When the two pipes are opened letely filled in 13 hours. For how long was the second
tank of 325 liter capacity has two inlet pipes. The tank gets ours less than the 2nd pipe. If the first pipe was open as long ong as the first pipe, then the pipes would deliver equal quant imultaneously for equal number of hours, the tank gets compipe kept open?  12 hours  5 hours	as the second pipe and the second pipe was open as ities of water. When the two pipes are opened letely filled in 13 hours. For how long was the second
tank of 325 liter capacity has two inlet pipes. The tank gets ours less than the 2nd pipe. If the first pipe was open as long ong as the first pipe, then the pipes would deliver equal quant imultaneously for equal number of hours, the tank gets compipe kept open?  12 hours  15 hours  10 hours	as the second pipe and the second pipe was open as ities of water. When the two pipes are opened letely filled in 13 hours. For how long was the second
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<b>10</b>	
FeedBack	<b>■</b> Bookmark
	ه Answer key/Solutio
Q.74 a triangle PQR, ∠R is a right angle and RQ > RP. Poin R/PS = 2/3, then find the value of QS (in cm).	t S is located on QR such that $\angle$ RPS = 2 $\angle$ SPQ and RS = 5 cm
<b>0</b> 9	
<b>4</b>	
<b>6</b>	
<b>8</b>	
FeedBack	<b>■</b> Bookmark
	ه Answer key/Solutio
ecided that the remaining amount would be repaid at	of interest. After one year, Rs.6,960 was repaid and it was the end of the second year at 5% per annum. If the interest e interest accrued during the first year, then find the borrowed
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	م Answer key/Solutio

<ul><li>3</li><li>0 1</li></ul>	
© 5	
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	م Answer key/Solution
	,500 respectively. Atul marks his item up by 2p% and offers a . If both make the same non-zero profit, then what is the value
□ 20	
<b>12.5</b>	
<b>17.5</b>	
<b>2</b> 5	
FaadDaali	■ Bookmark
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Q.78	
Q.78 n a rectangle ABCD, if X and Y are the midpoints of sig	્ર Answer key/Solution
Q.78 In a rectangle ABCD, if X and Y are the midpoints of signals and that of the rectangle.	્ર Answer key/Solution
Q.78 n a rectangle ABCD, if X and Y are the midpoints of siciangle DXY and that of the rectangle.	ح Answer key/Solution



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	ه Answer key/Solution
Q.82 A family has a father, a mother, and their six children - A, B, C, D, E, and F. They have to attedecide that only one among the father or the mother will attend, along with any number of following constraints:  (a) Neither B nor C will go along with their mother.  (b) F goes, only if A or D goes.	
In how many different ways can the family attend the party?  1  55	
2 60	
3 <b>65</b>	
4 🔍 70	
FeedBack	<b>■</b> Bookmark
	م Answer key/Solution
Q.83  If $ x + y  +  x - y  = 6$ , then find the minimum value of $x^2 + y^2 + 5xy$ .	
1 🔍 –27	
2 -15	
3	
4 🔍 10	
FeedBack	<b>■</b> Bookmark
	ه Answer key/Solution

#### Q.84

Two teams - A and B - are working together to complete a job. Team A alone can complete the job in 15 days but working along with team B, the job is completed in 12 days. Team B consists of two men - Ram and Shyam. Ram's efficiency is one-third more than the efficiency of Shyam. If the total wages for the job is Rs. 21,000, then find Shyam's wages (in Rs.).

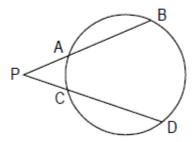
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Answer key/Solution

Q.85

In the figure given below, if CD = 2 PA, AB = 14 cm and PC = 12 cm, then find the measure (in cm) of PB + PD.



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& Answer key/Solution

Q.86

If the sum of all the odd factors of a number is  $16\frac{2}{3}\%$  of the sum of all its even factors, then find the remainder when the number is divided by 4.

- 1 0 2
- 2 0 4
- 3 **6**
- 4 **0** 0

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#### 0.87

In a group, each of 88 players plays at least one of the three games – badminton, cricket and football. Twelve players play all the three games, while twenty four players play badminton and cricket, but not football. Every player who plays football also plays badminton or cricket or both. If the number of players playing badminton equals that playing cricket, then find the number of players playing cricket.

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Answer key/Solution

#### Q.88

In a test match in cricket, the scores of Rohit and Virat in the first innings are in the ratio of 13:16. In the second innings as compared to the first innings, their scores increase by the same number of runs and their scores are in the ratio of 53:62 in the second innings. What is the ratio of Virat's second innings score and his first innings score?

- 1 05:4
- 2 31:24
- 3 30:23
- 4 9 31:25

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**■** Bookmark

Answer key/Solution

Q.89

If a, b and c are positive real numbers such that  $a+b+c < \frac{1}{a} + \frac{1}{b} + \frac{1}{c}$  and abc = 1, then which of the following is definitely true?

- 1 Exactly one a, b, and c is greater than 1.
- 2 Exactly two of a, b and c are less than 1.
- 3 Exactly two of a, b and c are greater than 1.
- 4 At least two of a, b and c are less than 1.

	م Answer key/Solution
Q.90 In a pentagon, each of the interior angles is a distinct integer. What is the largest possible the pentagon?	value of an interior angle of
1 <b>179°</b>	
2 <b>□ 359°</b>	
3 <b>○ 360</b> °	
4	
FeedBack	<b>■</b> Bookmark
	ه Answer key/Solution
Q.91	
A fruit seller mixes three types of fruits – fresh fruits, over ripen fruits and almost rocosting Rs. 60/kg, Rs. 50/kg and Rs. 40/kg respectively. Now he sells these mix	
Rs. 45/kg at a loss of $\frac{250}{43}$ %. How many kg of almost rotten fruits were mixed if 7 kgs	of each fresh
fruits and over ripen fruits were there in the mixture?	
1 • 16 kg	
2 • 13 kg	
3 <b>10 kg</b>	
4	
FeedBack	<b>■</b> Bookmark
	ه Answer key/Solution

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FeedBack

## Q.92 If the first four terms of an arithmetic progression are p, p + 2q, 3p + q, and 30, then find the value of the 2016th term of the progression. FeedBack **■** Bookmark Answer key/Solution Q.93 While updating the birthday status of his family members on Facebook, Abdul observed that the birthdays of all his sisters followed a specific pattern, such that three times the date (of the month) of birth when added to five times the month of birth gives a total of 100. If no two sisters of Abdul were born on the same day of the month, then what is the maximum number of sisters that Abdul can have? 1 0 3 2 0 5 3 **7** 4 🗎 8 FeedBack **■** Bookmark Answer key/Solution Q.94 From a large cone, a frustum of the cone is cut away and removed to obtain a smaller cone. If the percentage reduction in the radius of the cone is 20%, find the percentage reduction in the volume of the cone. 1 79.2% 2 80% 3 64% 4 48.8% FeedBack **■** Bookmark Answer key/Solution

#### Q.95

If the value of a two-digit number is six times the difference between the number and the number formed by reversing its digits, then find the sum of the digits of that numbers.

#### Q.96

Three friends - Samar, Samir and Samira ran a race of 500 m. The time taken by Samar to complete the race was recorded by a correct watch whereas the watch in which the time taken by Samir and Samira was recorded, gains time uniformly at the same rate due to its faultiness. If Samar beats Samir by 50 m and the time recorded for Samar, Samir and Samira in their respective watches to complete the race were 50 seconds, 70 seconds and 40 seconds respectively, then the speed of Samira during the race was

- 1 0 15.75 m/s
- $^{2}$   $\frac{1}{9}$  m/s
- $3^{\circ}$   $16\frac{2}{3}$
- 4 17.50 m/s

FeedBack

**■** Bookmark

Answer key/Solution

#### Q.97

Find the value of  $(a^2 + b^2 + c)$  such that a, b, c are in G.P and the difference between the third term and the first term is a perfect square.

Given that  $2\log_9 \sqrt{13.5a} + \log_9(0.09b^2) + \log_9\left(\frac{9c}{5b}\right) = 5$ , where (a, b, c > 0) and a, b, c are integers.

- 1 2016
- 2 0 1086
- 3 0 1008
- 4 2076

FeedBack	<b>■</b> Bookmark
	م Answer key/Solution
Q.98 A contractor takes up a project and employs 100 equally efficient workers (x1, x2,x100) the work in 51 days. They begin the work on schedule but because of a dengue outbreak in and on every second day, two workers leave the job site i.e., x1 and x2 leave after the 2nd d4th day and so on. How many days does the contractor require to complete the work?	the area, the workers fall ill
FeedBack	<b>■</b> Bookmark
	& Answer key/Solution
Q.99 The number of ways in which 8 identical iPhones can be kept in three identical bags is	
FeedBack	<b>■</b> Bookmark
	& Answer key/Solution
Q.100 M is a point which is at a distance of 8 units from the point N = (1, 2). If P is another point N	vith coordinates (−3, 5),
then the maximum distance (in units) between M and P is  1 3	
207	
3 9	
4 🕛 13	
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reedback	<b>■</b> Bookmark
reeuback	■ Bookmark  Answer key/Solution