



Mock CAT - 13 2020 (New Pattern)

Scorecard ([procreview.jsp?sid=aaabxYtlqFsLahrNu3nExThu Feb 11 22:21:39 IST 2021&qsetId=OqSQqjwwxx4=&qsetName=Mock CAT - 13 2020 \(New Pattern\)\)](#))

Accuracy ([AccSelectGraph.jsp?sid=aaabxYtlqFsLahrNu3nExThu Feb 11 22:21:39 IST 2021&qsetId=OqSQqjwwxx4=&qsetName=Mock CAT - 13 2020 \(New Pattern\)\)](#))

Qs Analysis ([QsAnalysis.jsp?sid=aaabxYtlqFsLahrNu3nExThu Feb 11 22:21:39 IST 2021&qsetId=OqSQqjwwxx4=&qsetName=Mock CAT - 13 2020 \(New Pattern\)\)](#))

Booster Analysis ([BoosterAnalysis.jsp?sid=aaabxYtlqFsLahrNu3nExThu Feb 11 22:21:39 IST 2021&qsetId=OqSQqjwwxx4=&qsetName=Mock CAT - 13 2020 \(New Pattern\)\)](#))

Video Attempt ([VideoAnalysis.jsp?sid=aaabxYtlqFsLahrNu3nExThu Feb 11 22:21:39 IST 2021&qsetId=OqSQqjwwxx4=&qsetName=Mock CAT - 13 2020 \(New Pattern\)\)](#))

Solutions ([Solution.jsp?sid=aaabxYtlqFsLahrNu3nExThu Feb 11 22:21:39 IST 2021&qsetId=OqSQqjwwxx4=&qsetName=Mock CAT - 13 2020 \(New Pattern\)\)](#))

Bookmarks ([Bookmarks.jsp?sid=aaabxYtlqFsLahrNu3nExThu Feb 11 22:21:39 IST 2021&qsetId=OqSQqjwwxx4=&qsetName=Mock CAT - 13 2020 \(New Pattern\)\)](#))

VARC

DILR

QA

Sec 1

Directions for questions (1 to 3): The passage below is accompanied by a set of three questions. Choose the best answer to each question.

A fishing jetty would not require the kind of dredging that the MPT (Mormugao Port Trust) is currently undertaking. In September 2016, the National Green Tribunal (NGT) had halted the dredging activity that the Trust was then carrying out for the construction of a new berth because it had begun the work before it got the Environmental Clearance to do so. Moreover, the MPT had bypassed the compulsory public hearing, and the NGT also found discrepancies in the Environmental Impact Assessment Report, which the Bombay High Court upheld. A public hearing was finally held in February 2017, but 65% of the dredging had already been done by then.

A petroleum and oil jetty will mean greater industrial activity in the vicinity, more pollution and related health hazards, and displacement of the fishing community. Even the neighbouring Baina beach, another fishing hub, will be affected.

"If the beach ceases to exist, we will lose our way of life and our source of livelihood," says Custodia D'souza, a fisherman representing the Old Cross Canoe Owners Association. It will affect not only the local fishing community but also migrant communities who work in the Goan fishing industry due to lack of better opportunities back home. Overall, 2000 families in the area are engaged in fishing.

Residents also fear demolition and displacement. "Communities that have lived here for 200 years are being told by the MPT that their homes are going to be demolished," says Simoes. The Environmental Impact Assessment Report, however, maintains that there is no resettlement and rehabilitation plan since the project will be carried out on the existing port premises and no land will be acquired.

"The coast is nearly destroyed, Jindal is responsible for it," says Juze Roderigues, a 75-year-old from Khariwado.

Jindal Steel Works (JSW) accounts for the bulk of the operations being carried out at the Mormugao Port, and the company was banned from transporting coal for flouting the permit prescribed by the Goa State Pollution Control Board.

Q.1 [11594329]

The primary purpose of the passage is:

- 1 ☐ to highlight the importance of the NGT in fighting corrupt industrial bodies.
- 2 ☐ to show how environmental changes can affect the local coastline
- 3 ☐ to produce evidence to the fact that transportation of coal through water bodies is dangerous.
- 4 ☐ to show the financial and environmental strain that can affect Goa's coasts and its local.

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Q.2 [11594329]

The passage mentions, 'A public hearing was finally held in February 2017, but 65% of the dredging had already been done by then.' to:

1 ☐ introduce the problem that threatens to affect the Goan fishermen.

2 ☐ highlight how easy it is to bribe officials and get things done illegally.

3 ○ showcase how some locals looking to make easy money are very much working hand in hand with the industrial bigwigs.

4 ○ introduce, how, despite warnings, the MPT is determined to ruin the fishing community of Goa.

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Bookmark

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Q.3 [11594329]

All of the following are true, except:

- 1 ☐ a petroleum and oil complex near a coast will attract other pollutant factors.
- 2 ☐ industrial encroachments in the Goan coastline will affect the migrant workers in the long run.
- 3 ☐ residents of Goa are primarily afraid that the MPT will take away their land.
- 4 ☐ Goan coastline is important for fishing communities.

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[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.4 [11594329]**

Directions for question 4: The five sentences (labelled 1, 2, 3, 4, 5) given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the proper order for the sentences and key in this sequence of five numbers as your answer.

- 1. The author rightly points out that Marx's project of Capital remained incomplete, as he could not touch upon the question of state, foreign trade and the world market, and so the answer to the question relating to the stubborn resilience of capitalism in the form of neo-liberalism may not be directly traced to Marx.
- 2. What, however, requires to be analysed is how neo-liberalism legitimizes itself by securing the consent of the governed, thereby making it easy for the Right to score its victory.
- 3. He points out further that the main levers of neo-liberalism being speculative capital, new technology and usurpation of the peripheral zones of the world, the crisis it generates by intensification of mass discontent is almost insurmountable, the reason being the impossibility of the neo-liberal State to resort to the strategy of welfarism, as practised earlier.
- 4. In spite of bouts of crises, it is undeniable that capitalism has not collapsed; rather, it has established its credibility in the sense that, following the end of the Soviet era, no alternative system is in sight, at least in the immediate future.
- 5. So the question: is Capital still relevant?

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Q.5 [11594329]

Directions for question 5: The five sentences (labelled 1, 2, 3, 4, 5) given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the proper order for the sentences and key in this sequence of five numbers as your answer.

- 1. If an overweight person drinks 480ml of grape juice every day for three months, both the waistline and insulin resistance will increase remarkably.**
- 2. Although it is quite unlike processed cane sugar, fructose can be as harmful if you make a habit of drinking juice on a regular basis.**
- 3. You are supposed to savour the fruit bite by bite one serving at a time, the fibre helping you feel full.**
- 4. Fruits have plenty of fructose, a close cousin of the more familiar glucose.**
- 5. A juice overload also raises the level of uric acid in the blood, which leads to gout.**

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Nationally, Mrs Merkel's CDU, like its Bavarian sister-party, the CSU, has lost a big chunk of its support to the AFD. This is a reaction to the chancellor's decision in 2015 to admit more than 1m asylum-seekers into Germany. Though it is also because of her willingness to use frugal Germans' cash to bail out prodigal southern members of the euro. For its part, the SPD is being deserted by its supporters in droves because once again it is propping up a chancellor they see as unacceptably conservative. The SPD now faces a bleak choice: to stay in a floundering, bickering alliance with a party its voters hate, or to leave—probably triggering an election in which it might do even worse than last time.

Nothing will happen before the end of the month. But the SPD might well jump if Hesse, a large state that votes on October 28th, delivers a similar verdict. That will lead to a new election, or possibly an attempt by Mrs Merkel to govern as a minority administration with the Greens. Little of note has been heard from her government on the national, European or global stage since it took office seven months ago and the drift is likely to continue. Even if the GroKo staggers on, the chancellor's days at the top seem numbered. Senior members of her party openly discuss the likelihood that she will be obliged to stand down as party leader (though not, yet, as chancellor) at the CDU congress in December. The idea, presumably, is to allow her probable successor, the CDU's general secretary, Annegret Kramp-Karrenbauer, a chance to raise her profile before taking over as chancellor in good time for the next election. But it seems unlikely to make much difference to the CDU's fortunes. Modern Germans have an understandable aversion to charismatic leaders, but Ms Kramp-Karrenbauer will test even them.


Q.6 [11594329]

The passage suggests that SPD may not have suffered a major loss in Bavaria if:

- 1 ☐ they did not have an alliance with CDU.
 - 2 ☐ they had entered a coalition with CSU.
 - 3 ☐ the election results were in accordance with the opinion polls.
-

4 ☐ various events across Europe did not have a negative impact.



 Answer key/Solution

Bookmark

FeedBack

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Q.7 [11594329]

The author apparently takes the view that CDU losing the election:

- 1 ☐ will be detrimental to Europe.
- 2 ☐ is inconsequential to the future of Europe.
- 3 ☐ will revitalise Europe.
-

4 ☐ will result in a no-deal Brexit.



 Answer key/Solution

Bookmark

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Q.8 [11594329]

Modern Germans are the least likely to vote for candidates:

- 1 ☐ who are highly rational and deliberate in their style.
 - 2 ☐ who uses their authority to demand high performance.
 - 3 ☐ who takes a more participative role in the decision-making process.
-

4 ○ who rely on charm and persuasiveness.



 Answer key/Solution

Bookmark

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Q.9 [11594329]

From the tone of the passage, the author would be:

1 ☐ less likely to endorse CDU.

2 ☐ more likely to endorse the Greens.

3 ☐ more likely to endorse AFD.

4 ☐ **less likely to endorse SPD.**



 **Answer key/Solution**

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Q.10 [11594329]

Each of the following is a reason for CDU losing its supporters to AFD EXCEPT:

- 1 ☐ the Chancellor's decision to admit asylum seekers.
 - 2 ☐ the Chancellor's decision to bail out southern members of the Euro.
 - 3 ☐ The Chancellor's popularity had a significant decline among German voters.
-

4 ☐ all of the above are reasons for CDU losing its supporters to AFD.



 Answer key/Solution

Bookmark

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Q.11 [11594329]

The overall tone of the passage is:

1 ☐ unbiased analysis.

2 ☐ polite cynicism.

3 ☐ subtle pessimism.

4 ☐ excessive denial.



Answer key/Solution

Bookmark

FeedBack

Q.12 [11594329]

Directions for question 12: 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. And not just for women, but for anyone who might previously have struggled to be heard in public life.
2. But the growing willingness of women to opt in even when tradition allows them to duck out suggests a wider cultural shift.
3. A wedding is one of the few times even those genuinely terrified of public speaking can't decently get out of, a time-honoured trial of nerves for the self-conscious.
4. Some people are wary of being the person who loves the sound of their own voice, but I think that has become quite old-fashioned now.
5. To have a voice, to speak up rather than sit there mute, feels increasingly charged and significant.

Answer key/Solution

Bookmark

FeedBack

Q.13 [11594329]

Directions for question 13: 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. Sometimes it would be nice to have 24 hours available to finish the workload of the day.
2. The brain activity recordings also reveal variation in sleep intensity: "Males that slept the least had the deepest sleep", says co-author Niels Rattenborg who conducts sleep research at Seewiesen.
3. This holds true both for humans and other animals.
4. Daily sleep is therefore thought to be essential for regenerating the brain and maintaining performance.
5. However, the drive for sleep inevitably compromises our performance or even causes us to fall asleep under dangerous situations, such as driving a car.

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.14 [11594329]**

Directions for question 14: 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. The findings, if true, would provide the first direct observational evidence for cosmic inflation, a theory that posits that the universe expanded exponentially during the first fractions of a second of its existence.**
- 2. Some or all of the signals originally attributed to gravity were due to effects of local dust.**
- 3. Earlier this year the BICEP2 team reported that they had detected gravitational waves from the Big Bang.**
- 4. The BICEP2 evidence was based on the way that microwave radiation from the edge of the universe is polarized.**
- 5. But now other cosmologists say the much-heralded claim may have been premature.**

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Directions for questions (15 to 20): The passage below is accompanied by a set of six questions. Choose the best answer to each question.

“Dark” is a fascinatingly modern word. Our worries about the internet are embodied by the dark web, that byword for criminality, abuse and nastiness that repeatedly bursts into the news. Fears about what the online world is doing to politics are focused on dark ads, untraceable to the people and parties who place them. And in a different kind of darkness in the real world, as well as dark kitchens, there are dark supermarkets and dark stores: the vast spaces we collapse into the increasingly meaningless category of “distribution centres”, where a mixture of largely low-paid workers and ever-more sophisticated systems of machinery prepare and pack the stuff we buy online.

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There are clear echoes here of things always seemingly in-built within capitalism: William Blake’s “dark satanic mills”, pitch-black coalmines, the nocturnal privations of shift work. Light and dark have always been signifiers for the quality of work and what it can do to people’s psyches. What seems remarkable is that in a post-industrial economy, replete with ideas of employment as a means of personal fulfillment, that dichotomy is returning, at speed.

What lurks in those ever-increasing shadows? Last week, researchers at three British universities published the latest results of a five-yearly government-funded skills and employment survey, which highlights exactly the kind of issues the dark economy embodies. Almost a third of those surveyed said they had to work at very high speeds “all” or “almost all” of the time. The share of people who have “a lot of discretion over how they do their job” has crashed from 62% in 1992 to 38% now. Meanwhile 55% of men and 47% of women reported that they either “always” or “often” left work exhausted.

This is no way to run an economy, let alone a society. At the absolute grassroots, it is great to see it being fiercely contested, as evidenced by last week’s one-day strike by people working for a range of catering firms – including not just McDonald’s, Wetherspoons and TGI Fridays, but the delivery services Uber Eats and Deliveroo. The responsibility for their predicament lies not just with corporations who insist on people working at a breakneck pace for impossibly low wages and often living like moles, but those of us who so blithely click and consume. Maybe it is time not just that the darkness receded in workplaces up and down the country, but that the light went on in our own heads.

Q.15 [11594329]

All of the following statements are false except:

1 ☐ dark kitchens are basically used to sell food door to door.

2 ☐ Amazon’s distribution centres are well ventilated.

3 ☐ in today's world all consumables are packed and distributed through dubious machineries.

4 ☐ the consumers are not guilt-free when it comes to the exploitation of the wage workers.



 Answer key/Solution

Bookmark

FeedBack

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“Dark” is a fascinatingly modern word. Our worries about the internet are embodied by the dark web, that byword for criminality, abuse and nastiness that repeatedly bursts into the news. Fears about what the online world is doing to politics are focused on dark ads, untraceable to the people and parties who place them. And in a different kind of darkness in the real world, as well as dark kitchens, there are dark supermarkets and dark stores: the vast spaces we collapse into the increasingly meaningless category of “distribution centres”, where a mixture of largely low-paid workers and ever-more sophisticated systems of machinery prepare and pack the stuff we buy online.

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Q.16 [11594329]

Based on this passage, the author will definitely agree with which one the following?

1 ☐ The current culture of work affects the psyche of the workers.

2 ☐ William Blake was a champion for workers’ rights.

3 ☐ Distribution centres evade categories.

4 ☐ Majority of women today feel a sense of fatigue and displeasure with the nature of their jobs.



 Answer key/Solution

Bookmark

FeedBack

Directions for questions (15 to 20): The passage below is accompanied by a set of six questions. Choose the best answer to each question.

“Dark” is a fascinatingly modern word. Our worries about the internet are embodied by the dark web, that byword for criminality, abuse and nastiness that repeatedly bursts into the news. Fears about what the online world is doing to politics are focused on dark ads, untraceable to the people and parties who place them. And in a different kind of darkness in the real world, as well as dark kitchens, there are dark supermarkets and dark stores: the vast spaces we collapse into the increasingly meaningless category of “distribution centres”, where a mixture of largely low-paid workers and ever-more sophisticated systems of machinery prepare and pack the stuff we buy online.

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Q.17 [11594329]

Which of the following statements can be inferred from the passage?

- 1 ☐ People buying high-end products imagine well-lit work spaces for the online workers.
 - 2 ☐ Dark and disturbing advertisements by unwanted politicians have pushed the world into a crisis.
-

3 ☐ Dark economy has forced workers to focus more on quantity and less on quality.

4 ☐ Industry as we understood is extinct.



 Answer key/Solution

Bookmark

FeedBack

Directions for questions (15 to 20): The passage below is accompanied by a set of six questions. Choose the best answer to each question.

“Dark” is a fascinatingly modern word. Our worries about the internet are embodied by the dark web, that byword for criminality, abuse and nastiness that repeatedly bursts into the news. Fears about what the online world is doing to politics are focused on dark ads, untraceable to the people and parties who place them. And in a different kind of darkness in the real world, as well as dark kitchens, there are dark supermarkets and dark stores: the vast spaces we collapse into the increasingly meaningless category of “distribution centres”, where a mixture of largely low-paid workers and ever-more sophisticated systems of machinery prepare and pack the stuff we buy online.

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Q.18 [11594329]

The author provides the example of William Blake to show that:

1 ☐ dark kitchens are very much a British phenomenon.

2 ☐ exploitation which took root at the early stage of capitalism is returning quickly.

3 ☐ the passivity of the modern workers in accepting their fate is worrisome.

4 ☐ the night shifts and privatisation of work spells a bad omen for the future of the world economy.



 Answer key/Solution

Bookmark

FeedBack

Directions for questions (15 to 20): The passage below is accompanied by a set of six questions. Choose the best answer to each question.

“Dark” is a fascinatingly modern word. Our worries about the internet are embodied by the dark web, that byword for criminality, abuse and nastiness that repeatedly bursts into the news. Fears about what the online world is doing to politics are focused on dark ads, untraceable to the people and parties who place them. And in a different kind of darkness in the real world, as well as dark kitchens, there are dark supermarkets and dark stores: the vast spaces we collapse into the increasingly meaningless category of “distribution centres”, where a mixture of largely low-paid workers and ever-more sophisticated systems of machinery prepare and pack the stuff we buy online.

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Q.19 [11594329]

Which of the following is not one of the complaints made by workers participating in the survey mentioned in the passage?


1 ☐ The dark style of operations

2 ☐ The pace of their work

3 ☐ Lack of ability to choose one's work style

4 ☐ The exhaustion caused by their work



 Answer key/Solution

Bookmark

FeedBack

Directions for questions (15 to 20): The passage below is accompanied by a set of six questions. Choose the best answer to each question.

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Q.20 [11594329]

The purpose of the passage is to:

1 ☐ shut down distribution centres.

2 ☐ show how certain styles of worker management are dangerous.

3 ☐ improve the conditions of workers across Britain.

4 ☐ highlight some problems with the current labour conditions.

×

 Answer key/Solution

Bookmark

FeedBack

Q.21 [11594329]

Directions for question 21: 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. Maybe the first task is to eradicate corruption from our social and political practice.
2. Trust, probity, the rule of law, freedom, justice and the eradication of poverty: these are basic things.
3. The first step in our renaissance has to be putting our house in order.
4. We all know that the terms of African independence were flawed at birth; Africa stepped on to the world stage with its hands tied, the contract of nations negotiated against its favour.
5. The roots of corruption are deep, but not so deep that one generation of stern prohibition of all corrupt practices can't stamp them out.

 Answer key/Solution

Bookmark

FeedBack

Q.22 [11594329]

Directions for question 22: The passage given below is followed by four summaries. Choose the option that best captures the author's position.

'Cool' does not only refer to a respected aspect of masculine display, it's also a symptom of *anomie*, confusion, anxiety, self-gratification and escapism, since being cool can push individuals towards passivity more than towards an active fulfillment of life's potential. Often "it is more important to be 'cool and down' with the peer group than to demonstrate academic achievement," write White & Cones (p.87). On the one hand, the message produced by a cool pose fascinates the world because of its inherent mysteriousness. The stylized way of offering resistance that insists more on appearance than on substance can turn cool people into untouchable objects of desire. On the other hand, to be cool can be seen as a decadent attitude leading to individual passivity and social decay.

1 ☐ The notion of being cool is full of contradictions.

2 ☐ Being cool can have positive manifestations in an individual and thus is perceived both positively and negatively.

3 ☐ Being cool fascinates because of its mystery and repels because of its effects of individual passivity and social decay.

4 ☐ Being cool can push an individual towards passivity and thus is viewed as not just as something fascinating but also as a decadent attitude.

 Answer key/Solution

Bookmark

FeedBack

Q.23 [11594329]

Directions for question 23: The five sentences (labelled 1, 2, 3, 4, 5) given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the proper order for the sentences and key in this sequence of five numbers as your answer.

1. Those who whip up hatred for their own cynical ends may not be directly responsible for what happens.
2. Bad people can be emboldened in ways speakers never intended.
3. But it's a reminder that politics is not a game; words have consequences.
4. What thinking person would not resolve to do better, be more careful in future?
5. This feeling that you can't start a fire without people getting burned only hardened last week, when a Brexit campaign demonising immigrants was followed by a flood of racist attacks.

 Answer key/Solution

Bookmark

FeedBack

Sec 2

Directions for question 24 to 27: Answer the questions on the basis of the information given below.

Exactly 100 employees work in an office. A ten days activity was organised in which all employees played one of the games - Tennis, Basketball, Volleyball and Badminton in their break hour. On day one, 20, 30, 25 and 25 employees played Tennis, Basketball, Volleyball and Badminton respectively.

The following table provides the information about the shifting of employees from one sport to other from day 2 onwards.

	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Tennis to basketball	2	3	4	4	1	8	1	6	4
Tennis to Volleyball	1	5	6	6	5	4	4	4	2
Tennis to Badminton	3	0	3	3	6	5	5	3	3
Basketball to Tennis	4	6	2	1	2	2	2	8	4
Basketball to Volleyball	5	2	7	2	3	3	5	2	1
Basketball to Badminton	0	3	8	3	4	6	3	5	2
Volleyball to Basketball	5	4	1	4	2	1	6	1	3
Volleyball to Tennis	6	5	1	2	5	2	1	6	8
Volleyball to Badminton	2	3	2	3	7	4	4	3	6
Badminton to Tennis	3	1	3	4	3	8	2	5	3
Badminton to Volleyball	4	2	1	6	1	3	9	4	2
Badminton to basketball	2	3	5	7	5	5	3	2	1

Q.24 [11594329]

How many employees played Volleyball on 9th day?

1 ☐ 32

2 ☐ 39

3 ☐ 27

4 ☐ 29

 Answer key/Solution

Bookmark

FeedBack

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Basketball to Volleyball	5	2	7	2	3	3	5	2	1
Basketball to Badminton	0	3	8	3	4	6	3	5	2
Volleyball to Basketball	5	4	1	4	2	1	6	1	3
Volleyball to Tennis	6	5	1	2	5	2	1	6	8
Volleyball to Badminton	2	3	2	3	7	4	4	3	6
Badminton to Tennis	3	1	3	4	3	8	2	5	3
Badminton to Volleyball	4	2	1	6	1	3	9	4	2
Badminton to basketball	2	3	5	7	5	5	3	2	1

Q.25 [11594329]

Find the difference between the maximum number of employees playing any sport and the minimum number of employees playing any sport on the given 10 days.

1 ☐ 33

2 ☐ 18

3 ☐ 25

4 ☐ 29

 Answer key/Solution

Bookmark

FeedBack

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Volleyball to Badminton	2	3	2	3	7	4	4	3	6
Badminton to Tennis	3	1	3	4	3	8	2	5	3
Badminton to Volleyball	4	2	1	6	1	3	9	4	2
Badminton to basketball	2	3	5	7	5	5	3	2	1

Q.26 [11594329]

For how many days did at least 20 employees play each of the four sports?

 Answer key/Solution

Bookmark

FeedBack

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Exactly 100 employees work in an office. A ten days activity was organised in which all employees played one of the games - Tennis, Basketball, Volleyball and Badminton in their break hour. On day one, 20, 30, 25 and 25 employees played Tennis, Basketball, Volleyball and Badminton respectively.

The following table provides the information about the shifting of employees from one sport to other from day 2 onwards.

	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10
Tennis to basketball	2	3	4	4	1	8	1	6	4
Tennis to Volleyball	1	5	6	6	5	4	4	4	2
Tennis to Badminton	3	0	3	3	6	5	5	3	3
Basketball to Tennis	4	6	2	1	2	2	2	8	4
Basketball to Volleyball	5	2	7	2	3	3	5	2	1
Basketball to Badminton	0	3	8	3	4	6	3	5	2
Volleyball to Basketball	5	4	1	4	2	1	6	1	3
Volleyball to Tennis	6	5	1	2	5	2	1	6	8
Volleyball to Badminton	2	3	2	3	7	4	4	3	6
Badminton to Tennis	3	1	3	4	3	8	2	5	3
Badminton to Volleyball	4	2	1	6	1	3	9	4	2
Badminton to basketball	2	3	5	7	5	5	3	2	1

Q.27 [11594329]

Which of the following sports was played by the maximum number of employees in the ten days?

1 ☐ Tennis

2 ☐ Volleyball

3 ☐ Basketball

4 ☐ Badminton

 Answer key/Solution

Bookmark

FeedBack

Directions for questions 28 to 31: Answer the questions on the basis of the information given below.

Ten friends – A, B, C, D, E, F, G, H, I and J - decided to attend the state fair at ABC stadium. After attending the cultural programs in fair, they all decided to play some game. So they went to a shop from where each one of them purchased a ticket from the tickets numbered from 1 to 10. Somehow all of them managed to get the ticket having its number equivalent to the number of their initials i.e, A had ticket number 1, B had ticket number 2, C had ticket number 3 and so on.

Now, for the game, all of them kept their tickets on a table in such a way that ticket numbers were not visible and the tickets were shuffled. Then each one of them picked one ticket randomly from the table. When they all showed their ticket numbers it was found that the ticket number of the ticket picked by each friend from the table was maximum 1 away from his initially purchased ticket number, for example - C could have picked a ticket, numbered as 2, 3 or 4 only.

Q.28 [11594329]

If D got to pick his initial ticket again from the table i.e, ticket number 4, then maximum how many friends could not be having the same ticket as their initially purchased ticket?

×

 Answer key/Solution

Bookmark

FeedBack

Directions for questions 28 to 31: Answer the questions on the basis of the information given below.

Ten friends – A, B, C, D, E, F, G, H, I and J - decided to attend the state fair at ABC stadium. After attending the cultural programs in fair, they all decided to play some game. So they went to a shop from where each one of them purchased a ticket from the tickets numbered from 1 to 10. Somehow all of them managed to get the ticket having its number equivalent to the number of their initials i.e, A had ticket number 1, B had ticket number 2, C had ticket number 3 and so on.

Now, for the game, all of them kept their tickets on a table in such a way that ticket numbers were not visible and the tickets were shuffled. Then each one of them picked one ticket randomly from the table. When they all showed their ticket numbers it was found that the ticket number of the ticket picked by each friend from the table was maximum 1 away from his initially purchased ticket number, for example - C could have picked a ticket, numbered as 2, 3 or 4 only.

Q.29 [11594329]

In how many ways can they take their tickets, such that exactly 4 students were not having the same ticket as their initially purchased ticket?

×

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Directions for questions 28 to 31: Answer the questions on the basis of the information given below.

Ten friends – A, B, C, D, E, F, G, H, I and J - decided to attend the state fair at ABC stadium. After attending the cultural programs in fair, they all decided to play some game. So they went to a shop from where each one of them purchased a ticket from the tickets numbered from 1 to 10. Somehow all of them managed to get the ticket having its number equivalent to the number of their initials i.e, A had ticket number 1, B had ticket number 2, C had ticket number 3 and so on.

Now, for the game, all of them kept their tickets on a table in such a way that ticket numbers were not visible and the tickets were shuffled. Then each one of them picked one ticket randomly from the table. When they all showed their ticket numbers it was found that the ticket number of the ticket picked by each friend from the table was maximum 1 away from his initially purchased ticket number, for example - C could have picked a ticket, numbered as 2, 3 or 4 only.

Q.30 [11594329]

If the number of ways in which exactly 'n' students not having their initial tickets is maximum possible, then what is the value of n?

1 ☐ 4

2 ☐ 6

3 ☐ 8

4 ☐ 2

✖

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Directions for questions 28 to 31: Answer the questions on the basis of the information given below.

Ten friends – A, B, C, D, E, F, G, H, I and J - decided to attend the state fair at ABC stadium. After attending the cultural programs in fair, they all decided to play some game. So they went to a shop from where each one of them purchased a ticket from the tickets numbered from 1 to 10. Somehow all of them managed to get the ticket having its number equivalent to the number of their initials i.e, A had ticket number 1, B had ticket number 2, C had ticket number 3 and so on.

Now, for the game, all of them kept their tickets on a table in such a way that ticket numbers were not visible and the tickets were shuffled. Then each one of them picked one ticket randomly from the table. When they all showed their ticket numbers it was found that the ticket number of the ticket picked by each friend from the table was maximum 1 away from his initially purchased ticket number, for example - C could have picked a ticket, numbered as 2, 3 or 4 only.

Q.31 [11594329]

What is the total number of ways such that at least one of the students is not having his initial ticket again?

1 ☐ 86

2 ☐ 89

3 ☐ 88

4 ☐ 90

[Answer key/Solution](#)

Bookmark

FeedBack

Direction for questions 32 to 35: Answer the question on the basis of the information given below.

Ravi has a gold chain with N links, such that links are numbered from 1 to N. Ravi wants to cut the links into groups of one or more links, in such a way that he can pay salary to Ritika by paying any number of links she may ask for her work on contract basis. But since cutting a gold chain comes with the cost, he has to be very smart while cutting it. One cut means a link is cut at one place.

Original:



After one cut:



Q.32 [11594329]

If $N = 865$, then what is the minimum number of cuts that Ravi should make?

[Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Direction for questions 32 to 35: Answer the question on the basis of the information given below.

Ravi has a gold chain with N links, such that links are numbered from 1 to N. Ravi wants to cut the links into groups of one or more links, in such a way that he can pay salary to Ritika by paying any number of links she may ask for her work on contract basis. But since cutting a gold chain comes with the cost, he has to be very smart while cutting it. One cut means a link is cut at one place.

Original:



After one cut:



Q.33 [11594329]

If Ravi made 8 cuts, then what is the maximum possible value of N?

[Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Direction for questions 32 to 35: Answer the question on the basis of the information given below.

Ravi has a gold chain with N links, such that links are numbered from 1 to N. Ravi wants to cut the links into groups of one or more links, in such a way that he can pay salary to Ritika by paying any number of links she may ask for her work on contract basis. But since cutting a gold chain comes with the cost, he has to be very smart while cutting it. One cut means a link is cut at one place.

Original:



After one cut:



Q.34 [11594329]

If $N = 512$, then what could be the maximum sum of the numbers written on the links of any piece of the chain after Ravi made cuts?

[Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Direction for questions 32 to 35: Answer the question on the basis of the information given below.

Ravi has a gold chain with N links, such that links are numbered from 1 to N . Ravi wants to cut the links into groups of one or more links, in such a way that he can pay salary to Ritika by paying any number of links she may ask for her work on contract basis. But since cutting a gold chain comes with the cost, he has to be very smart while cutting it. One cut means a link is cut at one place.

Original:



After one cut:

**Q.35 [11594329]**

If Ravi has to make more than 5 cuts but less than 7 cuts, then what is the number of possible values that N can take?

[Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Direction for questions 36 to 39: Answer the questions on the basis of the information given below.

125 similar cubes of dimension $1 \times 1 \times 1$ are arranged to form a bigger cubical box of dimension $5 \times 5 \times 5$. From one corner of the top layer of this block, a cuboid of dimension $2 \times 2 \times 1$ is removed. From the opposite corner of the same top layer, a cuboid of dimension $1 \times 2 \times 1$ is removed. Then similarly, from the third and the fourth corners of that layer, cuboids having dimensions $1 \times 3 \times 1$ and $4 \times 1 \times 1$ are removed respectively. All exposed faces of the thus formed block are then coloured red. It is known that, while the dimensions are defined as $l \times b \times h$, l , b and h represents length, breadth and height of that cube or cuboid.

Q.36 [11594329]

How many small cubes are left in the bigger block?

1 ☐ 108

2 ☐ 110

3 ☐ 112

4 ☐ 116

 Answer key/Solution

Bookmark

FeedBack

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125 similar cubes of dimension $1 \times 1 \times 1$ are arranged to form a bigger cubical box of dimension $5 \times 5 \times 5$. From one corner of the top layer of this block, a cuboid of dimension $2 \times 2 \times 1$ is removed. From the opposite corner of the same top layer, a cuboid of dimension $1 \times 2 \times 1$ is removed. Then similarly, from the third and the fourth corners of that layer, cuboids having dimensions $1 \times 3 \times 1$ and $4 \times 1 \times 1$ are removed respectively. All exposed faces of the thus formed block are then coloured red. It is known that, while the dimensions are defined as $l \times b \times h$, l , b and h represents length, breadth and height of that cube or cuboid.

Q.37 [11594329]

How many cubes do not have any face coloured in red?

1 ☐ 38

2 ☐ 26

3 ☐ 25

4 ☐ 27

 Answer key/Solution

Bookmark

FeedBack

Direction for questions 36 to 39: Answer the questions on the basis of the information given below.

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Q.38 [11594329]

How many cubes have only two red coloured faces?

1 ☐ 32

2 ☐ 34

3 ☐ 18

4 ☐ 29

 Answer key/Solution

Bookmark

FeedBack

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Q.39 [11594329]

How many smaller cubes, out of the cubes left in the top layer, have three red coloured faces?

 Answer key/Solution

Bookmark

FeedBack

Directions for question 40 to 43: Answer the questions on the basis of the information given below.

IPL, an annual T-20 Cricket event, recently completed its 10th season, in which 8 teams participated. RCB, a star-studded, one of the participating team, played a total of 150 matches in all the 10 seasons taken together. The average runs scored per match for all the 150 matches played by RCB is 175, with no more than 225 runs and no less than 135 runs in any match. Following table gives information about the number of matches played and the number of sixes hit by 3 of their star players - Kohli, Gayle and ABD.

Player	No. of matches played	Total no. of sixes hit
Kohli	140	280
Gayle	120	490
ABD	130	350

The above 3 players, played for RCB in each of the 10 seasons.

Further, it is known that :

(A) In every match,

(i) In which Gayle played, he did hit at least 1 six but did not hit more than 7 sixes,

(ii) In which ABD played, he did hit at least 1 six but did not hit more than 6 sixes, and

(iii) In which Kohli played, he did hit at least 1 six but did not hit more than 4 sixes;

(B) In no match involving RCB, did more than 15 sixes were hit.

(C) In every match of RCB, at least one of these 3 players played the match.

Q.40 [11594329]

What can be the maximum number of matches played by RCB, in which the total number of sixes hit in the match, is less than 6?

1 ☐ 120

2 ☐ 90

3 ☐ 113

4 ☐ 101

 Answer key/Solution

Bookmark

FeedBack

Directions for question 40 to 43: Answer the questions on the basis of the information given below.

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(C) In every match of RCB, at least one of these 3 players played the match.

Q.41 [11594329]

Out of the 150 matches played by RCB, what can be the maximum value of the total runs scored by RCB in the 100 matches taken together?

1 ☐ 22500

2 ☐ 19500

3 ☐ 17500

4 ☐ 21500

 Answer key/Solution

Bookmark

FeedBack

Directions for question 40 to 43: Answer the questions on the basis of the information given below.

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(iii) In which Kohli played, he did hit at least 1 six but did not hit more than 4 sixes;

(B) In no match involving RCB, did more than 15 sixes were hit.

(C) In every match of RCB, at least one of these 3 players played the match.

Q.42 [11594329]

If the number of matches in which both Gayle and Kohli played is minimum possible, then what can be the maximum number of matches in which Kohli hit more sixes than Gayle ?(Consider only those matches in which both played.)

1 ☐ 70

2 ☐ 90

3 ☐ 120

4 ☐ 110

 Answer key/Solution

Bookmark

FeedBack

Directions for question 40 to 43: Answer the questions on the basis of the information given below.

IPL, an annual T-20 Cricket event, recently completed its 10th season, in which 8 teams participated. RCB, a star-studded, one of the participating team, played a total of 150 matches in all the 10 seasons taken together. The average runs scored per match for all the 150 matches played by RCB is 175, with no more than 225 runs and no less than 135 runs in any match. Following table gives information about the number of matches played and the number of sixes hit by 3 of their star players - Kohli, Gayle and ABD.

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(iii) In which Kohli played, he did hit at least 1 six but did not hit more than 4 sixes;

(B) In no match involving RCB, did more than 15 sixes were hit.

(C) In every match of RCB, at least one of these 3 players played the match.

Q.43 [11594329]

If the number of matches in which all the 3 players played is maximum possible, then what can be the maximum value of the total number of sixes hit by the 3 batsmen in all such matches put together?

1 ☐ 990

2 ☐ 1050

3 ☐ 1090

4 ☐ Cannot be determined

 Answer key/Solution

Bookmark

FeedBack

Sec 3

Q.44 [11594329]

"I am three times as old as you were when I was as old as you are now", said a mother to his son. If the sum of the present ages of the mother and the son is 120 years, then what is the present age (in years) of the mother?

☐[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.45 [11594329]**

Two articles are sold, each at a price of Rs. 4950, one at 10% profit and other at 10% loss. Find the overall loss amount (in Rs.).

1 ☐ 10002 ☐ 03 ☐ 1004 ☐ 300☒[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.46 [11594329]**

If x , y and z are positive real numbers, then which of the following is true?

1 ☐ $x^2 + y^2 + z^2 \geq xy + yz + zx$ 2 ☐ $(x + y)(y + z)(z + x) \geq 8xyz$ 3 ☐ $(1/x) + (x/xy) > 2/(x + y)$ 4 ☐ All of the above

[🔍 Answer key/Solution](#)

Bookmark

FeedBack

Q.47 [11594329]

Ranbir started travelling from Delhi to Jaipur at 10 am and Deepika started at 1 pm from Jaipur to Delhi. They met at 2 pm in between and reached their respective destination at the same time. At what time did they reach their destination?

1 ☐ 3 pm2 ☐ 4 pm3 ☐ 5 pm4 ☐ 6 pm[🔍 Answer key/Solution](#)

Bookmark

FeedBack

Q.48 [11594329]

A, B, C, D and E takes 30 days, 20 days, 15 days, 12 days and 60 days respectively to do the same amount of work. They are divided into 2 groups such that one group took twice the amount of time taken by the other group, to do the same amount of work. How many such pairs of groups are possible?

1 ☐ 12 ☐ 23 ☐ 34 ☐ 4

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.49 [11594329]**

If $f(x) = mx + n$ and $f(f(f(x))) = 8(x + 7)$, then find the value of $(3m + 2n)$.

1 ☐ 202 ☐ 353 ☐ 224 ☐ 30[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.50 [11594329]**

If $x : y = 2 : 5$ find the value of $\left(\frac{3x^2 + xy}{y^2 - x^2} \right)$

1 ☐ 21/222 ☐ 22/213 ☐ 44/414 ☐ None of these

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.51 [11594329]**

The sum of the first 10 terms of an Arithmetic Progression is 50 and the sum of the next 10 terms is 250. Find the thirteenth term of the AP.

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.52 [11594329]**

If $(5^{23} + 5^{23} + 5^{23} + 5^{23} + 5^{23})(2^{23} + 2^{23}) = 10^{x+2}$, then find the value of x.

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.53 [11594329]**

If $f(x + y, x - y) = x \times y$, then find the expression for $f(x, y)$.

1 ☐ $\frac{x^2 + y^2}{4}$

2 ☐ $\frac{x^2 - y^2}{4}$

3 ☐ $\frac{x - y}{2}$

4 ☐ None of these

[🔍 Answer key/Solution](#)

Bookmark

FeedBack

Q.54 [11594329]

Find the perpendicular distance between the two lines given by the equations, $5x + 12y = 9$ and $5x + 12y = 16$.

1 ☐ 1/22 ☐ 73 ☐ 6/134 ☐ 7/13[🔍 Answer key/Solution](#)

Bookmark

FeedBack

Q.55 [11594329]

If $M = 40^{506070}$ and $N = 9$, then what is the remainder when M is divided by N ?

☒[🔍 Answer key/Solution](#)

Bookmark

FeedBack

Q.56 [11594329]

If the average of n consecutive natural numbers starting with "a" is 29 then the average of n natural numbers starting with " $2a + 29$ " will be

(Write '0' if your answer is cannot be determined)

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.57 [11594329]**

Let the ratio of male population to female population be 3 : 4 in the first year and in the second year be 4 : 5. If their population grows at a uniform rate then find the ratio of male population to female population in the third year.

1 ☐ 5 : 62 ☐ 64 : 753 ☐ 16 : 254 ☐ Cannot be determined[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.58 [11594329]**

Find the 578th term in the series 1,2,2,4,4,4,4,8,8,8,8,8,8,8,.....

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.59 [11594329]**

How many acute angled triangles with integral sides are possible if two of the sides are 7 and 11?

1 ☐ 12

2 ☐ 13

3 ☐ 5

4 ☐ 7

 Answer key/Solution

Bookmark

FeedBack

Q.60 [11594329]

On a biased dice every odd number appears four times as the frequency of every even number. If the dice is rolled three times, what is the probability that the sum of those appeared numbers is 17 or more?

1 ☐ 1/3375

2 ☐ 12/625

3 ☐ 13/625

4 ☐ 13/3375

 Answer key/Solution

Bookmark

FeedBack

Q.61 [11594329]

The loss on selling an article at Rs.950 is 25% more than the profit on selling the same article at Rs.1040. Find the profit percentage if it is sold at Rs.1100.



 Answer key/Solution

Bookmark

FeedBack

Q.62 [11594329]

Find the number of integral solutions of the equation $4x - 7y = 35$, if x lies in the interval $-50 < x < 50$.

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.63 [11594329]**

A Spice airline has a free luggage allowance upto a certain kg and if there is extra luggage, it is charged at constant rate per kg. The total luggage charge paid by M and S is Rs. 1050. If both M and S has carried twice the luggage they actually did then charge would be Rs. 2400 & Rs.900 respectively. Find the luggage charge paid by M(in Rs.).

1 ☐ 7502 ☐ 9003 ☐ 12004 ☐ 1500[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.64 [11594329]**

Find the average of the following series $1 \times 2 \times 3 \times 4 + 2 \times 3 \times 4 \times 5 + 3 \times 4 \times 5 \times 6 + \dots + 11 \times 12 \times 13 \times 14$

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

Q.65 [11594329]

Price of the diesel is increased from Rs 60/litre to Rs 70/litre. By how much percent should the consumption of the diesel be reduced by Ravi so as to increase his expenditure by only 5%?

1 ☐ 152 ☐ 7.53 ☐ 124 ☐ 10 Answer key/Solution

Bookmark

FeedBack