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Mock CAT - 18 2020 (New Pattern)

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VARC

LRDI

QA

Sec 1

Direction for questions (1-6): Read the given passage and answer the questions that follow.

The principle of Darwinian evolution now is not just an explanatory theory, but also a debunker of theism. As such, it has been elevated to a status of unquestionable truth to the extent that biologists who may have doubts on its fireproof status would not admit so in public in case they become pariahs in their community. The other downside of holding such an absolutist position is that any proposal that may hint at other mechanisms that do not comfortably fit with the orthodox beliefs are dismissed outright as they may imply some universal intelligence or teleological plan that smack of a heavenly planner. Its most enthusiastic adherents assert that the theory of evolution has no room for other mechanisms hence no other possibilities are conceivable or indeed allowable. This, in spite of the fact that an unresolved residue is always present in science even after the most successful application of reductionist principles with the corollary that all theories should be taken to be provisional and incomplete. This unscientific attitude burdens the Darwinian theory of evolution with a weight it just cannot carry.

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Q.1 [11594329]
According to the passage, which of the following can be inferred about "the evolution of the gaps"?

1 ○ It is the rational and scientific counterpart of the concept of "God of the gaps."

2 ○ An unscientific explanation that scientists use to hide any scientific loopholes in a theory.

3 ○ The Darwinian theory of competition can't be utilized to understand evolution.

4 ○ It is insufficient to provide an explanation for the missing link in the process of evolution.

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⚷ Answer key/Solution

Bookmark   FeedBack

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Q.2 [11594329]
According to the passage, the existence of a natural law:

1 ◯ makes it difficult for the author to accept the findings of Darwin.

2 ○ proves that the findings of Darwin are not practically applicable.

3 ○ adds to the author's dilemma in accepting the theory of evolution.

4 ○ was the main reason for the evolution of complex elements from humble beginnings.

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🔍 Answer key/Solution

Bookmark   FeedBack

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Q.3 [11594329]

According to the passage, which of the following is not a reason for the author to find the current version of evolution theory unconvincing?

1   ◯ The existence of fossil records

2 ○ The presumption of the absence of mentality in simple matter

3 ○ The elevated status of the principle of Darwinian evolution

4 ○ The possible existence of a natural law

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🔍 Answer key/Solution

Bookmark   FeedBack

Direction for questions (1-6): Read the given passage and answer the questions that follow.

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Q.4 [11594329]
In the context of this passage, which of the following is the best example of an "unscientific attitude"?

1 ○ A renowned critic insisting on a debate before considering that he was wrong in his evaluation of a movie.

2 ○ A batsman being skeptical about the suggestions of the new coach regarding his batting technique.

3 ○ A scholar of Theology rejecting the findings of an eminent but atheist scientist after thorough evaluation.

4 ○ A group of researchers refusing to consider data presented by a new scholar.

🔦 Answer key/Solution

Bookmark   FeedBack

Direction for questions (1-6): Read the given passage and answer the questions that follow.

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Q.5 [11594329]
Why does the author write the line "This complementary leverage of mind-over-matter and matter-over-mind is an extraordinary fact"?

1 ○ To marvel at the inherent complexity and incomprehensibility of the process of evolution

2 ○ To highlight a loophole in the current theory of evolution accepted by many

3 ○ To prove that Darwinian theory of evolution cannot explain the emergence of mentality

4 ○ To question the spontaneous appearance of mentality in the evolution process

🔑 Answer key/Solution

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Q.6 [11594329]
Which of the following is the primary focus of the author in this passage?

1 ○ The existence of logical problems in the explanation of theory of evolution

2 ○ The unscientific attitude demonstrated by many scientists when it comes to Darwin

3 ○ The God-like status of Darwin in the field of evolutionary biology

4 ○ The lack of explanation regarding the emergence of mentality in the process of evolution

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🔍 Answer key/Solution

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Direction for questions (7-12): Read the given passage and answer the questions that follow.

The next summer the truce for a year ended, after lasting until the Pythian Games. During the armistice the Athenians expelled the Delians from Delos, concluding that they must have been polluted by some old offence at the time of their consecration, and that this had been the omission in the previous purification of the island, which, as the writer has related, had been thought to have been duly accomplished by the removal of the graves of the dead. The Delians had Atramyttium in Asia given them by Pharnaces, and settled there as they were removed from Delos.

Meanwhile Cleon prevailed on the Athenians to let him set sail at the expiration of the armistice for the towns in the direction of Thrace with twelve hundred heavy infantry and three hundred horses from Athens, a large force of the allies, and thirty ships. The Athenians from the ships had already taken Torone, and their land forces following at his heels burst in with him with a rush over the part of the old wall that had been pulled down, killing some of the Peloponnesians and Toronaeans in the melee, and making prisoners of the rest, and Pasitelidas their commander amongst them. Brasidas meanwhile had advanced to relieve Torone, and had only about four miles more to go when he heard of its fall on the road, and turned back again. Cleon and the Athenians set up two trophies, one by the harbour, the other by the fortification and, making slaves of the wives and children of the Toronaeans, sent the men with the Peloponnesians and any Chalcidians that were there, to the number of seven hundred, to Athens; whence, however, they all came home afterwards, the Peloponnesians on the conclusion of peace, and the rest by being exchanged against other prisoners with the Olynthians. About the same time Panactum, a fortress on the Athenian border, was taken by treachery by the Boeotians. Meanwhile Cleon, after placing a garrison in Torone, weighed anchor and sailed around Athos on his way to Amphipolis.

About the same time Phaeax, son of Erasistratus, set sail with two colleagues as ambassador from Athens to Italy and Sicily. The Leontines, upon the departure of the Athenians from Sicily after the pacification, had placed a number of new citizens upon the roll, and the commons had a design for redividing the land; but the upper classes, aware of their intention, called in the Syracusans and expelled the commons. These last were scattered in various directions; but the upper classes came to an agreement with the Syracusans, abandoned and laid waste their city, and went and lived at Syracuse, where they were made citizens. Afterwards some of them were dissatisfied, and leaving Syracuse occupied Phocaeae, a quarter of the town of Leontini, and Bricinniae, a strong place in the Leontine country, and being there joined by most of the exiled commons carried on war from the fortifications.

The Athenians hearing this, sent Phaeax to see if they could not by some means so convince their allies there and the rest of the Sicilians of the ambitious designs of Syracuse as to induce them to form a general coalition against her, and thus save the commons of Leontini. Arrived in Sicily, Phaeax succeeded at Camarina and Agrigentum, but meeting with a repulse at Gela did not go on to the rest, as he saw that he should not succeed with them, but returned through the country of the Sicels to Catana, and after visiting Bricinniae as he passed, and encouraging its inhabitants, sailed back to Athens.

Q.7 [11594329]

During the armistice, according to the author, why did the Athenians expel the Delians from Delos?

1 ○ They were charged with polluting the warfare.

2 ○ The offence of removing the graves made the Athenians expel the Delians.

3 ○ They were believed to have been polluted by some old offence.

4 ○ None of the above.

🔍 Answer key/Solution

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Q.8 [11594329]
All of the following sentences are true except:

1 ◯ the upper class negotiated with the Syracusans in expelling commoners from the state.

2 ◯ Phaeax was sent to save the commons of Leontini by waging a war with Gela.

3 ◯ a fortress on the Athenian border was taken by the Boeotians.

4 ○ the truce of the war lasted till the Pythian Games.

🔍 Answer key/Solution

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Q.9 [11594329]
According to the 1st paragraph of the given passage, which of the following defines 'consecration'?

1 ○ The action of commanding someone

2 ○ The action of ordaining someone

3 ○ The action of seducing someone

4 ◯ The action of following someone

🔍 Answer key/Solution

Bookmark   FeedBack

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Q.10 [11594329]

What can be derived from the said journey of Phaeax, keeping in mind the last sentence of the passage?

1 ◯ It was an unsuccessful one because he was nauseated back at Gela.

2 ◯ He was successful in spreading the word of the Athenians in all the states.

3 ◯ He sailed back to Athens after working to persuade the states to form a coalition against Syracuse.

4 ○ All of the above.

🔍 Answer key/Solution

Bookmark   FeedBack

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Q.11 [11594329]
In this passage, based on the tactics adopted by the Athenians, which of the following can be inferred?

1 ○ War can come to an end via negotiation.

2 ○ War beyond its impact - there is a way via which negotiation can happen.

3 ○ Negotiation was a rare phenomenon in early warfare .

4 ○ Coalition was the basic approach of the Athenians.

🔍 Answer key/Solution

Bookmark   FeedBack

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Q.12 [11594329]
What is the narrative structure of the given passage?

1 ○ The point of approach is from the third person point of view.

2 ○ A commentary on war where the author is involved.

3 ○ A biography of a war, so the narrative structure is biographical.

4 ◯ All of the above.

🔍 Answer key/Solution

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Direction for questions (13-18): Read the given passage and answer the questions that follow.

Can you identify what or whom the following describes: is widely disliked around the world; might have been ditched by some supporters earlier had convincing alternatives existed; has had a difficult six months; and refuses to go quietly? Here's another clue: this is not a column about politics. The answer is the dollar. It is the most unloved of major currencies, apart from all the others. And, oddly, it has been given a fillip by a messy election result at home.

Or perhaps that is not so odd. The dollar's resilience has been one of the more monotonous motifs in financial markets in recent years. Dollar strength is twinned with another hardy theme—the growing heft of America's companies, notably its tech giants, in global equity markets. The dollar matters for America, but it matters for everywhere else, too. A weaker dollar would trigger a period of catch-up by the rest of the world's economies and asset markets. Such a prospect is seemingly delayed.

A reason for dollar resilience is growing doubts over fiscal stimulus in America. The election was supposed to be the start of a new era of fiscal largesse. Agreeing on any kind of policy now looks hard. If Joe Biden enters the Oval Office in January, he is likely to face a divided Congress. But dollar strength is not solely down to politics. It is as much about the economic consequences of a resurgent coronavirus as it is about dashed hopes of a blue-wave election.

Begin with the blue wave that didn't crest. Before the election, an idea had taken hold, fuelled by pollsters and election forecasters, that a clean sweep of the White House and both houses of Congress by the Democratic Party was highly likely. The upshot would be a weaker dollar.

In 2016 a similar prospect of fiscal easing drove the dollar up, not down. This needs some explaining. The difference is that four years ago, the Federal Reserve was expected to offset the stimulative effect of tax cuts by raising interest rates in order to contain inflation—thus supporting the dollar. But with the economy now weak, the Fed has committed itself to easy money. A fiscal-stimulus package would be an unimpeded spur to aggregate demand, leading to more imports, a wider trade deficit and a weaker dollar. And a weaker dollar would in turn help the rest of the world, partly because of its role as a borrowing currency beyond America's shores. A lot of emerging-market companies and governments have dollar debts, so a weaker greenback acts as an indirect stimulus to global growth.

Instead, the dollar has perked up a bit. That is because the dollar is special in another way. Dollar assets, notably shares, are more prized when the outlook seems less certain. Holders of dollars cling on to them for longer, rather than swap them for other currencies. This goes for wealthy savers in emerging economies, or Chinese or South Korean exporters, say, who have earned dollars on sales.

It also goes for institutional investors at home who might have thought of cashing in some of their expensive-looking American tech stocks for a wager on cheap-looking cyclical stocks in Europe or Asia. The diminished prospect of fiscal stimulus is one reason why this "reflation trade" is less alluring. The resurgence of coronavirus infections is another. Much of Europe is now in soft lockdown. Its economy is losing steam. The appeal of cyclical stocks is similarly ebbing. Investors have instead piled back into tech firms, which benefit from the stay-at-home economy. [...]

Q.13 [11594329]
Which of the following is NOT mentioned as a reason behind the resilience of dollar?

1 ◯ Ruined hopes of a blue-wave election in the US

2 ◯ Doubts over fiscal stimulus in the US

3 ◯ Economic consequences of Coronavirus

4 ◯ None of the above

✔

🔍 Answer key/Solution

Bookmark   FeedBack

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Q.14 [11594329]
What can be said most aptly about the opening paragraph of the passage?

1 ◯ The author uses a question and a clue to engage the reader's attention.

2 ◯ The author builds mystery around a topic and helps the reader eliminate an option.

3 ◯ The author uses allusion to capture interest and introduce the discussion topic.

4 ◯ The author uses a conversational tone and riddle-like diction to introduce a topic.

✖

🔍 Answer key/Solution

Bookmark   FeedBack

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Q.15 [11594329]
What does the author imply by the phrase "the blue wave that didn't crest" in Para 4?

1 ○ The Democratic party's win didn't lead to the weakening of the dollar.

2 ○ The Democratic party was unable to win at the large scale anticipated.

3 ○ The Democratic party performed opposite to expectations from it.

4 ○ Despite the Democratic Party's win, the Congress is divided on Biden's policies.

⚡ Answer key/Solution

Bookmark   FeedBack

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Q.16 [11594329]

Fill in the blanks in the correct order.

As per the last paragraph, _____ and _____ are the reasons why _____ and _____ is less alluring.

1 ○ Doubt over fiscal stimulus, Covid revival, buying cyclical stocks, selling US tech stocks

2 ○ European lockdown, doubt over fiscal stimulus, selling cyclical stocks, buying tech stocks

3 ○ A strong dollar, Covid revival, buying cyclical stocks, selling US tech stocks

4 ○ A divided Congress, Covid revival in Europe, buying European or Asian cyclical stocks, selling US tech stocks

⚿ Answer key/Solution

Bookmark   FeedBack

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Q.17 [11594329]
Which of the following can be inferred from Para 6 (the second last para)?

1 ○ Emerging economies such as China and South Korea value dollar more.

2 ○ The perception of safety associated with dollar makes it special.

3 ○ Wealthy savers and exporters are two groups that prefer dollar in uncertain times.

4 ○ Dollar can be called special because it has increased in value against expectations.

🔍 Answer key/Solution

Bookmark   FeedBack

Direction for questions (13-18): Read the given passage and answer the questions that follow.

Can you identify what or whom the following describes: is widely disliked around the world; might have been ditched by some supporters earlier had convincing alternatives existed; has had a difficult six months; and refuses to go quietly? Here's another clue: this is not a column about politics. The answer is the dollar. It is the most unloved of major currencies, apart from all the others. And, oddly, it has been given a fillip by a messy election result at home.

Or perhaps that is not so odd. The dollar's resilience has been one of the more monotonous motifs in financial markets in recent years. Dollar strength is twinned with another hardy theme—the growing heft of America's companies, notably its tech giants, in global equity markets. The dollar matters for America, but it matters for everywhere else, too. A weaker dollar would trigger a period of catch-up by the rest of the world's economies and asset markets. Such a prospect is seemingly delayed.

A reason for dollar resilience is growing doubts over fiscal stimulus in America. The election was supposed to be the start of a new era of fiscal largesse. Agreeing on any kind of policy now looks hard. If Joe Biden enters the Oval Office in January, he is likely to face a divided Congress. But dollar strength is not solely down to politics. It is as much about the economic consequences of a resurgent coronavirus as it is about dashed hopes of a blue-wave election.

Begin with the blue wave that didn't crest. Before the election, an idea had taken hold, fuelled by pollsters and election forecasters, that a clean sweep of the White House and both houses of Congress by the Democratic Party was highly likely. The upshot would be a weaker dollar.

In 2016 a similar prospect of fiscal easing drove the dollar up, not down. This needs some explaining. The difference is that four years ago, the Federal Reserve was expected to offset the stimulative effect of tax cuts by raising interest rates in order to contain inflation—thus supporting the dollar. But with the economy now weak, the Fed has committed itself to easy money. A fiscal-stimulus package would be an unimpeded spur to aggregate demand, leading to more imports, a wider trade deficit and a weaker dollar. And a weaker dollar would in turn help the rest of the world, partly because of its role as a borrowing currency beyond America's shores. A lot of emerging-market companies and governments have dollar debts, so a weaker greenback acts as an indirect stimulus to global growth.

Instead, the dollar has perked up a bit. That is because the dollar is special in another way. Dollar assets, notably shares, are more prized when the outlook seems less certain. Holders of dollars cling on to them for longer, rather than swap them for other currencies. This goes for wealthy savers in emerging economies, or Chinese or South Korean exporters, say, who have earned dollars on sales.

It also goes for institutional investors at home who might have thought of cashing in some of their expensive-looking American tech stocks for a wager on cheap-looking cyclical stocks in Europe or Asia. The diminished prospect of fiscal stimulus is one reason why this "reflation trade" is less alluring. The resurgence of coronavirus infections is another. Much of Europe is now in soft lockdown. Its economy is losing steam. The appeal of cyclical stocks is similarly ebbing. Investors have instead piled back into tech firms, which benefit from the stay-at-home economy. […]

Q.18 [11594329]
The pattern of expected economic strategy of 2016 as explained in Para 5 is most similar to:

1 ○ The government invested in infrastructure and reduced interest rates, ultimately increasing job demand.

2 ○ The government subsidised the manufacturing of a product and advertised the product widely, ultimately increasing its price.

3 ○ Expecting low rainfall, the government increased the minimum support price for a crop and subsidised farm inputs, ultimately boosting its sowing.

4 ○ The government investing in the tourist attractions of a place, and promoting it as a brand, ultimately increasing the state tourism revenue.

🔍 Answer key/Solution

Bookmark   FeedBack

Directions for question (19): 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.

Q.19 [11594329]
1. Nevertheless, the ideological differences between the left and the right are clearly articulated through their policies.
2. Broadly speaking, the left supports socialism, and the right can be said as associated with capitalism.
3. However, left-liberal regimes have been ruling in capitalist nations for years.
4. Hence, this distinction may seem as being too rudimentary to hold true in a complex contemporary society.

✖

🔍 Answer key/Solution

Bookmark   FeedBack

Q.20 [11594329]

Directions for question (20): The passage given below is followed by four summaries. Choose the option that best captures the author's position.

The flow of plastic into the ocean is expected to triple by 2040 if current trends continue, up to 29m tonnes a year – the equivalent of 50kg for every metre of coastline in the world. All efforts made and announced so far to curb plastic waste are expected to reduce the volume by only 7%. Once in the sea, it breaks down into microplastics, to be ingested by marine life. Political momentum for a global agreement to address the full lifecycle of plastic has been growing, with several high-level ministerial declarations in favour.

1 ○ Once plastic enters the sea, it breaks down into microplastics that is ingested by marine life, causing irreparable damage to the ecosystem.

2 ○ Amid the continuing growth in the quantity of plastic waste discharged into the seas, there has been a movement towards a comprehensive, global response to the issue.

3 ○ Rather than dealing only with the disposal of plastic waste, governments worldwide now recognize the need to address the full life cycle of plastic.

4 ○ All efforts made till now to curb plastic waste have been in vain and the political establishment needs to take immediate cognizance of this fact.

✖

🔍 Answer key/Solution

Bookmark   FeedBack

Directions for question (21): 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.

Q.21 [11594329]

1. Normally, it flies engineers to its clients' factories to identify and solve quality-control problems.
2. That's not an option in a world where flights are grounded, borders closed, and security tightened.
3. The UK company P2i adds water-repelling nanocoatings to smartphones and other gadgets.
4. So in some plants, P2i now relies on a system that uses artificial intelligence to look for even the slightest defects.

✖

🔍 **Answer key/Solution**

Bookmark   FeedBack

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.

Q.22 [11594329]

1. But when a cyberattack is actually launched by either the government or individual, there is often no real consequence because of the anonymity it offers.
2. Individuals are just as capable of launching cyberattacks, abetted and encouraged by their governments.
3. Malware is often simple, low-cost and difficult to trace.
4. As a large number of infected devices generates a huge amount of cryptocurrency, cybercriminal see this as a lucrative crime.
5. A lot of malware, for example, is manufactured in China, and there is reported collaboration between the People's Liberation Army (PLA) and Chinese universities to train hackers.

✖

🔍 **Answer key/Solution**

Bookmark   FeedBack

Q.23 [11594329]

Directions for question (23): The passage given below is followed by four summaries. Choose the option that best captures the author's position.

Uncertainty, confusion, fear: we've known all these and more, in bucketloads, since March. But how have our children fared? What are the long-term effects of the Corona pandemic on them, and how can we help them navigate it all, whatever their age? According to the experts, kids are resilient, and while we won't know for a long time how affected they've been by the pandemic, they are wired to cope. However, children who have already experienced difficulties, especially mental health issues, are at particular risk. Just as important is your own mental health, which will have a huge effect on how your child deals with what's happening, so don't forget to look after your own needs, and to seek help – from friends, your doctor, a therapist – if you're finding it tough. Be centred on – and guided by – your child. Each one is different, and each child's reaction to the pandemic is different. Start with them, rather than with what's happening out there in the big world.

1 ○ The education system and its impact on children during the pandemic

2 ○ Insanity and the challenge of maintaining a mental equilibrium during the pandemic

3 ○ The world is going for a toss during the pandemic and children are faring the worst.

4 ○ The importance of focusing on your mental health and that of your child through the pandemic

✔

🔍 **Answer key/Solution**

Bookmark   FeedBack

Directions for question (24): 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.

Q.24 [11594329]

1. New wave, early synth pop, the new romantics, London's Blitz kids, OMD, David Bowie, Gary Numan, Visage, Depeche Mode, Soft Cell and many other groups from the post-industrial early 80s ushered in the first generation of popular music that was entirely created with electronic instruments.
4. Initially niche, it soon went mainstream and travelled across the continent, resulting in a new wave of homegrown German electronic acts such as Boytronic, Rheingold, DAF and Stratis.
2. In 1988, Virgin released Techno! The New Dance Sound of Detroit, compiled by Neil Rushton.
3. It introduced Europe to the first wave of Detroit techno artists, Blake Baxter, Derrick May and Eddie Fowlkes among them.

✖

🔍 **Answer key/Solution**

Bookmark   FeedBack

Q.25 [11594329]

Directions for question (25): The passage given below is followed by four summaries. Choose the option that best captures the author's position.

The Assam government on Tuesday announced a slew of benefits for students, teachers and educational institutions in the state. The measures include provincialisation (taking over of liabilities like payment of salaries and other benefits by the government) of schools, junior colleges and colleges, teachers, professors, gifts of scooters to meritorious girl students, appointment of new teachers etc. "We had started provincialisation of educational institutions in 2011, but it nearly stopped in 2014. Today after a gap of 6 years we are releasing the first list of provincialised institutes as per notification issued by Governor Jagdish Mukhi," said health, finance, education and PWD minister Himanta Biswa Sarma in Guwahati. Initially, 197 high schools, 9 higher secondary schools, 9 junior colleges and 27 colleges would get provincialised. Jobs of 3049 teachers in high schools and 931 professors in colleges would also get provincialised, informed Sarma.

1 ○ The Assam government's initiatives to revamp pedagogy and school infrastructure

2 ○ The Assam government's promise of sops to students, teachers and institutions of learning

3 ○ The Assam government's policymaking related to education in the state

4 ○ The Assam government's perception of education and how education can be spread in the state.

✔

🔍 **Answer key/Solution**

Bookmark   FeedBack

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.

Q.26 [11594329]

1. The most important driver of the Quad's evolution is China.
2. Its military aggression against India and Japan, its attempts to subvert Australian civil society and its embrace of open geopolitical rivalry with the US is the strategic glue of the Quad.
3. Despite the US push to formalise the Quad, the grouping continues to be loose and informal in nature, which has raised questions among experts as to whether it can effectively work as a counterweight to China.
4. The most important determinant of which path is taken is the degree to which the Quad members can disentangle themselves from the economic and technological embrace of China.
5. Which is why discussions on 5G networks, supply chains and rare earths are so important to defining how far the Quad can go on the military and strategic side.

✖

Bookmark   FeedBack

Sec 2

Directions for questions 27 to 30: Answer the questions on the basis of the information given below.

Bakers Oven supplied cupcakes and doughnuts for three birthday parties, which were being celebrated at the houses of Mary, Nancy and Patsy. Bakers Oven supplies only two flavors - chocolate and vanilla - of cupcakes and doughnuts. The total number of cupcakes and doughnuts supplied to all three parties is 700.

It is also known that:
• Exactly 45% of the total order was for cupcakes.
• The total order for Patsy's party was 90 more than the total order for Mary's party.
• Nancy ordered an equal number of cupcakes and doughnuts and the number of vanilla cupcakes supplied to her was ten less than the number of vanilla doughnuts.
• Exactly 30% of the total order was for Mary. The number of chocolate doughnuts ordered by her was double the number of chocolate cupcakes ordered by her.
• Patsy ordered 50% of the total number of chocolate doughnuts.
The table gives details of few items supplied to the three birthday parties.

	Cupcakes	Chocolate flavored items
Mary	80	90
Nancy	-	110
Patsy	140	-

Q.27 [11594329]
Who ordered the maximum number of vanilla cupcakes?

1 ○ Mary

2 ○ Nancy

3 ○ Patsy

4 ○ Cannot be determined

✖

Answer key/Solution

Bookmark   FeedBack

Directions for questions 27 to 30: Answer the questions on the basis of the information given below.

Bakers Oven supplied cupcakes and doughnuts for three birthday parties, which were being celebrated at the houses of Mary, Nancy and Patsy. Bakers Oven supplies only two flavors - chocolate and vanilla - of cupcakes and doughnuts. The total number of cupcakes and doughnuts supplied to all three parties is 700.

It is also known that:
• Exactly 45% of the total order was for cupcakes.
• The total order for Patsy's party was 90 more than the total order for Mary's party.
• Nancy ordered an equal number of cupcakes and doughnuts and the number of vanilla cupcakes supplied to her was ten less than the number of vanilla doughnuts.
• Exactly 30% of the total order was for Mary. The number of chocolate doughnuts ordered by her was double the number of chocolate cupcakes ordered by her.
• Patsy ordered 50% of the total number of chocolate doughnuts.
The table gives details of few items supplied to the three birthday parties.

	Cupcakes	Chocolate flavored items
Mary	80	90
Nancy	-	110
Patsy	140	-

Q.28 [11594329]
What was the total number chocolate flavored doughnuts ordered by all three of them?

1 ○ 165

2 ○ 220

3 ○ 170

4 ○ 190

✖

🔍 Answer key/Solution

Bookmark | FeedBack

Directions for questions 27 to 30: Answer the questions on the basis of the information given below.

Bakers Oven supplied cupcakes and doughnuts for three birthday parties, which were being celebrated at the houses of Mary, Nancy and Patsy. Bakers Oven supplies only two flavors - chocolate and vanilla - of cupcakes and doughnuts. The total number of cupcakes and doughnuts supplied to all three parties is 700.

It is also known that:
• Exactly 45% of the total order was for cupcakes.
• The total order for Patsy's party was 90 more than the total order for Mary's party.
• Nancy ordered an equal number of cupcakes and doughnuts and the number of vanilla cupcakes supplied to her was ten less than the number of vanilla doughnuts.
• Exactly 30% of the total order was for Mary. The number of chocolate doughnuts ordered by her was double the number of chocolate cupcakes ordered by her.
• Patsy ordered 50% of the total number of chocolate doughnuts.
The table gives details of few items supplied to the three birthday parties.

	Cupcakes	Chocolate flavored items
Mary	80	90
Nancy	-	110
Patsy	140	-

Q.29 [11594329]
If 20% of the total order at Patsy's house was for vanilla cupcakes, then what was the difference in the total number of chocolate doughnuts and chocolate cupcakes supplied by Baker's Oven to these three parties?

1 ○ 50

2 ○ 20

3 ○ 45

4 ○ 65

✖

Bookmark   FeedBack

Directions for questions 27 to 30: Answer the questions on the basis of the information given below.

Bakers Oven supplied cupcakes and doughnuts for three birthday parties, which were being celebrated at the houses of Mary, Nancy and Patsy. Bakers Oven supplies only two flavors - chocolate and vanilla - of cupcakes and doughnuts. The total number of cupcakes and doughnuts supplied to all three parties is 700.

It is also known that:
• Exactly 45% of the total order was for cupcakes.
• The total order for Patsy's party was 90 more than the total order for Mary's party.
• Nancy ordered an equal number of cupcakes and doughnuts and the number of vanilla cupcakes supplied to her was ten less than the number of vanilla doughnuts.
• Exactly 30% of the total order was for Mary. The number of chocolate doughnuts ordered by her was double the number of chocolate cupcakes ordered by her.
• Patsy ordered 50% of the total number of chocolate doughnuts.
The table gives details of few items supplied to the three birthday parties.

	Cupcakes	Chocolate flavored items
Mary	80	90
Nancy	-	110
Patsy	140	-

Q.30 [11594329]
What was the total number of vanilla doughnuts supplied by Baker's Oven to these three parties?

1 ◯ 140

2 ◯ 220

3 ◯ 165

4 ◯ 145

Bookmark   FeedBack

Directions for questions 31 to 34: Answer the questions on the basis of the information given below.

Each of the five friends – Adi, Brendon, Charlie, Dany, and Eoin studies in a different college among KMC, RSD, MSC, JMC, and BVP and lives in a different locality among KC, RG, NC, SDA, and GK. Each person has a different bike among Splendor, Freedom, Pulsar, Karizma, and Rxz and each plays a different sport among Cricket, Tennis, Football, Basketball, and Rugby.

Further, it is known that:
(i) The person who lives in RG does not study at KMC college and the person who has Splendor does not play Rugby.
(ii) Dany plays Rugby and Charlie who lives in SDA, studies at MSC college.
(iii) Adi, who plays Basketball, does not has Karizma and the person who lives in KC plays Tennis. Further, the person who lives in GK does not play Cricket.
(iv)The person who plays Cricket, does not study at MSC college and he has Pulsar bike.
(v) The person who lives in NC, studies at RSD college and has Karizma bike.
(vi) Brendon, who has Rxz, does not play Football and the person who has Freedom, studies at BVP college.

Q.31 [11594329]
Who lives in RG?

1 ○ Adi

2 ○ Brendon

3 ○ Dany

4 ○ Eoin

✔

🔍 **Answer key/Solution**

Bookmark   FeedBack

Directions for questions 31 to 34: Answer the questions on the basis of the information given below.

Each of the five friends – Adi, Brendon, Charlie, Dany, and Eoin studies in a different college among KMC, RSD, MSC, JMC, and BVP and lives in a different locality among KC, RG, NC, SDA, and GK. Each person has a different bike among Splendor, Freedom, Pulsar, Karizma, and Rxz and each plays a different sport among Cricket, Tennis, Football, Basketball, and Rugby.

Further, it is known that:
(i) The person who lives in RG does not study at KMC college and the person who has Splendor does not play Rugby.
(ii) Dany plays Rugby and Charlie who lives in SDA, studies at MSC college.
(iii) Adi, who plays Basketball, does not has Karizma and the person who lives in KC plays Tennis. Further, the person who lives in GK does not play Cricket.
(iv) The person who plays Cricket, does not study at MSC college and he has Pulsar bike.
(v) The person who lives in NC, studies at RSD college and has Karizma bike.
(vi) Brendon, who has Rxz, does not play Football and the person who has Freedom, studies at BVP college.

Q.32 [11594329]
Which sport does the person who lives in GK play?

1 ○ Tennis

2 ○ Football

3 ○ Rugby

4 ○ Basketball

✔

🔍 Answer key/Solution

Bookmark   FeedBack

Directions for questions 31 to 34: Answer the questions on the basis of the information given below.

Each of the five friends – Adi, Brendon, Charlie, Dany, and Eoin studies in a different college among KMC, RSD, MSC, JMC, and BVP and lives in a different locality among KC, RG, NC, SDA, and GK. Each person has a different bike among Splendor, Freedom, Pulsar, Karizma, and Rxz and each plays a different sport among Cricket, Tennis, Football, Basketball, and Rugby.

Further, it is known that:
(i) The person who lives in RG does not study at KMC college and the person who has Splendor does not play Rugby.
(ii) Dany plays Rugby and Charlie who lives in SDA, studies at MSC college.
(iii) Adi, who plays Basketball, does not has Karizma and the person who lives in KC plays Tennis. Further, the person who lives in GK does not play Cricket.
(iv)The person who plays Cricket, does not study at MSC college and he has Pulsar bike.
(v) The person who lives in NC, studies at RSD college and has Karizma bike.
(vi) Brendon, who has Rxz, does not play Football and the person who has Freedom, studies at BVP college.

Q.33 [11594329]
The person who has Splendor bike lives in which locality?

1 ○ SDA

2 ○ GK

3 ○ KC

4 ○ RG

✔

🔍 **Answer key/Solution**

Bookmark　　　FeedBack

Directions for questions 31 to 34: Answer the questions on the basis of the information given below.

Each of the five friends – Adi, Brendon, Charlie, Dany, and Eoin studies in a different college among KMC, RSD, MSC, JMC, and BVP and lives in a different locality among KC, RG, NC, SDA, and GK. Each person has a different bike among Splendor, Freedom, Pulsar, Karizma, and Rxz and each plays a different sport among Cricket, Tennis, Football, Basketball, and Rugby.

Further, it is known that:
(i) The person who lives in RG does not study at KMC college and the person who has Splendor does not play Rugby.
(ii) Dany plays Rugby and Charlie who lives in SDA, studies at MSC college.
(iii) Adi, who plays Basketball, does not has Karizma and the person who lives in KC plays Tennis. Further, the person who lives in GK does not play Cricket.
(iv) The person who plays Cricket, does not study at MSC college and he has Pulsar bike.
(v) The person who lives in NC, studies at RSD college and has Karizma bike.
(vi) Brendon, who has Rxz, does not play Football and the person who has Freedom, studies at BVP college.

Q.34 [11594329]
Who studies at KMC college?
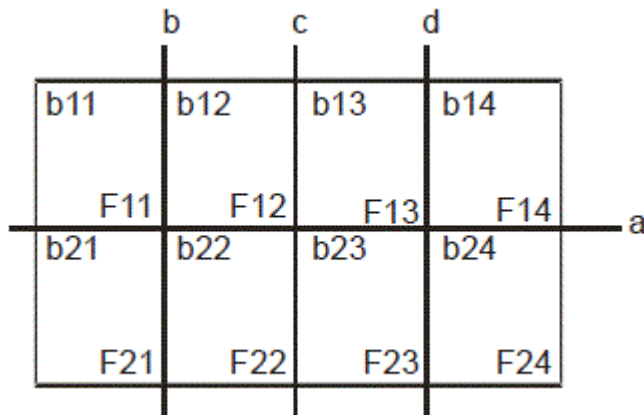
1 ◯ Adi

2 ◯ Brendon

3 ◯ Dany

4 ◯ Eoin

✔

⚲ Answer key/Solution

Bookmark   FeedBack

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

A rectangular sheet is divided into a 4 × 2 grid of smaller rectangles on both sides, as shown in the figure. The numbers at the right hand bottom corner is the number written on the front side of each rectangle. The numbers at the left hand top corner is the number written on the back side of each rectangle. Three folds are made - the first about line a, then next about line c and the third about b.

The folded sheet is stitched to make a 16-page note book by slicing the edges using a knife. The sequence used for folding was:

1. Fold (a, top, bottom) : Fold about line a. Place top part on the bottom part of the fold.
2. Fold (c, right, left) : Fold about line c. Place the right part of the fold on the left part.
3. Fold (d, right, left) : Fold about line b. Place the right part of the fold on the left part.
(If 2 lines overlap, the one on the top is represented in the operation.)

The final note book had a sequence of pages from 1 to 16, 1 being the top most page and 16 the bottom most.

Q.35 [11594329]
The process of folding was followed as per the design. What is the page number of F22?
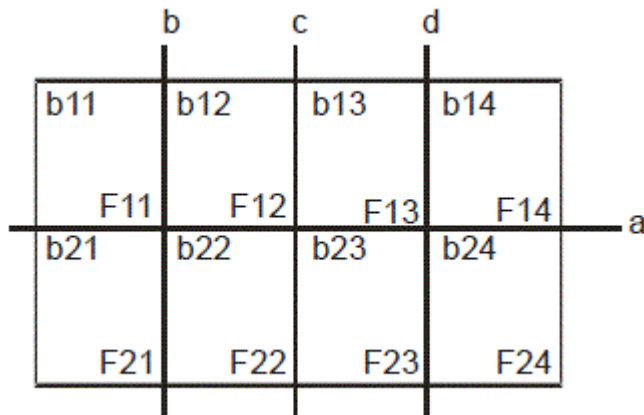
1 ◯ 1

2 ◯ 2

3 ◯ 15

4 ◯ 16

🔍 Answer key/Solution

Bookmark   FeedBack

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

A rectangular sheet is divided into a 4 × 2 grid of smaller rectangles on both sides, as shown in the figure. The numbers at the right hand bottom corner is the number written on the front side of each rectangle. The numbers at the left hand top corner is the number written on the back side of each rectangle. Three folds are made - the first about line a, then next about line c and the third about b.

The folded sheet is stitched to make a 16-page note book by slicing the edges using a knife. The sequence used for folding was:

1. Fold (a, top, bottom) : Fold about line a. Place top part on the bottom part of the fold.
2. Fold (c, right, left) : Fold about line c. Place the right part of the fold on the left part.
3. Fold (d, right, left) : Fold about line b. Place the right part of the fold on the left part.
(If 2 lines overlap, the one on the top is represented in the operation.)

The final note book had a sequence of pages from 1 to 16, 1 being the top most page and 16 the bottom most.

Q.36 [11594329]
Two page numbers in the original sheet were misprinted, because of which the page numbers 3 and 12 got interchanged. Which 2 numbers were wrong in the original sheet?

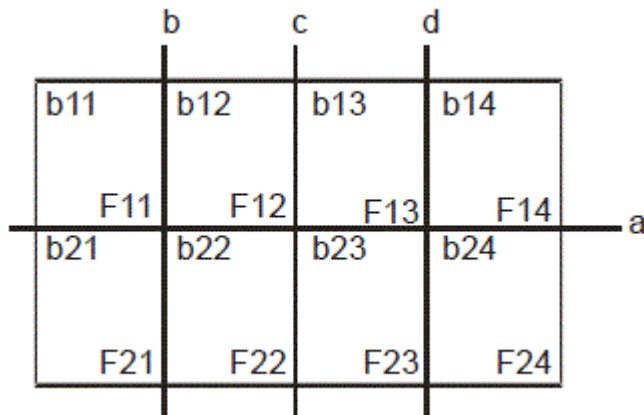1 ○ F12, F11

2 ○ F12, b14

3 ○ F23, b14

4 ○ F12, b11

🔍 Answer key/Solution

Bookmark   FeedBack

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

A rectangular sheet is divided into a 4 × 2 grid of smaller rectangles on both sides, as shown in the figure. The numbers at the right hand bottom corner is the number written on the front side of each rectangle. The numbers at the left hand top corner is the number written on the back side of each rectangle. Three folds are made - the first about line a, then next about line c and the third about b.

The folded sheet is stitched to make a 16-page note book by slicing the edges using a knife. The sequence used for folding was:

1. Fold (a, top, bottom) : Fold about line a. Place top part on the bottom part of the fold.
2. Fold (c, right, left) : Fold about line c. Place the right part of the fold on the left part.
3. Fold (d, right, left) : Fold about line b. Place the right part of the fold on the left part.
(If 2 lines overlap, the one on the top is represented in the operation.)

The final note book had a sequence of pages from 1 to 16, 1 being the top most page and 16 the bottom most.

Q.37 [11594329]
Additional information for questions 37 and 38: Ramu, who is new to the job, made a mistake in the sequence of folds. Hence, the page numbers got jumbled up. Ramu followed the following sequence while folding:
(a, top, bottom) → Fold (c, left, right) → Fold (b, left, right).
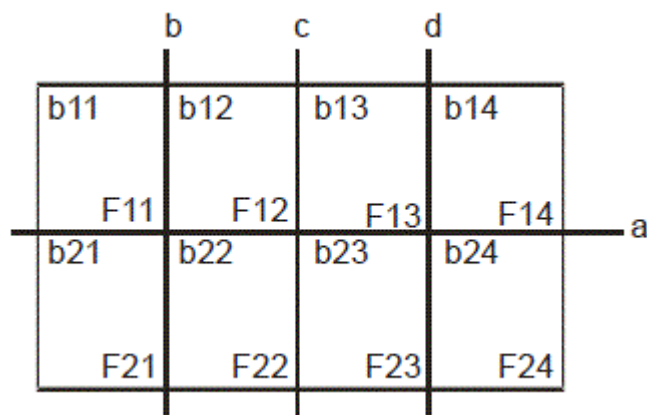So all the page numbers had to be edited.
How many of the original page numbers had to be replaced by smaller page numbers?

🔍 Answer key/Solution

Bookmark   FeedBack

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

A rectangular sheet is divided into a 4 × 2 grid of smaller rectangles on both sides, as shown in the figure. The numbers at the right hand bottom corner is the number written on the front side of each rectangle. The numbers at the left hand top corner is the number written on the back side of each rectangle. Three folds are made - the first about line a, then next about line c and the third about b.

The folded sheet is stitched to make a 16-page note book by slicing the edges using a knife. The sequence used for folding was:

1. Fold (a, top, bottom) : Fold about line a. Place top part on the bottom part of the fold.
2. Fold (c, right, left) : Fold about line c. Place the right part of the fold on the left part.
3. Fold (d, right, left) : Fold about line b. Place the right part of the fold on the left part.
(If 2 lines overlap, the one on the top is represented in the operation.)

The final note book had a sequence of pages from 1 to 16, 1 being the top most page and 16 the bottom most.

Q.38 [11594329]
Additional information for questions 37 and 38: Ramu, who is new to the job, made a mistake in the sequence of folds. Hence, the page numbers got jumbled up. Ramu followed the following sequence while folding:
(a, top, bottom) → Fold (c, left, right) → Fold (b, left, right).
So all the page numbers had to be edited.
How many pairs of the original numbers, interchange their page numbers?

🔍 Answer key/Solution

Bookmark   FeedBack

Directions for questions 39 to 42: Answer the questions on the basis of the information given below.

Rakesh was a keen stock investor. During the Covid lockdown, since there was more time at hand he invested in 4 stocks A, B, C, D during the month of May.
The following data is the 5 day moving average (5 DMA) of these 5 stocks. 5 day moving average is the average prices of stocks on the last 5 days (including that day) when the stocks were traded in the stock exchange.
The following table gives the 5 DMA of stocks (in Rs.) at 1200 hours on 8 consecutive days when the markets were open.

Stock	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8
A	540	543	543	542	541	540	542	543
B	1020	1025	1024	1025	1024	1026	1028	1029
C	141	143	144	143	142	143	142	141
D	232	233	235	236	237	233	237	236
E	800	804	806	812	815	813	816	810

Assume all transactions happen at 1200 hours, and ignore all other costs involved in the transactions.

Q.39 [11594329]
If Rakesh bought 1000 shares of D on day 2 and sold on day 7, what is his profit (in Rs.)?

1 ○ 800

2 ○ 4,000

3 ○ 8,000

4 ○ 20,000

🔍 Answer key/Solution

Bookmark   FeedBack

Directions for questions 39 to 42: Answer the questions on the basis of the information given below.

Rakesh was a keen stock investor. During the Covid lockdown, since there was more time at hand he invested in 4 stocks A, B, C, D during the month of May.
The following data is the 5 day moving average (5 DMA) of these 5 stocks. 5 day moving average is the average prices of stocks on the last 5 days (including that day) when the stocks were traded in the stock exchange.
The following table gives the 5 DMA of stocks (in Rs.) at 1200 hours on 8 consecutive days when the markets were open.

Stock	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8
A	540	543	543	542	541	540	542	543
B	1020	1025	1024	1025	1024	1026	1028	1029
C	141	143	144	143	142	143	142	141
D	232	233	235	236	237	233	237	236
E	800	804	806	812	815	813	816	810

Assume all transactions happen at 1200 hours, and ignore all other costs involved in the transactions.

Q.40 [11594329]
If the price of C was Rs. 150 at 1200 hours on Day 3, what was the price (in Rs.) of C on Day 8?

1 ○ Rs. 147

2 ○ Rs. 145

3 ○ Rs. 141

4 ○ Rs.155

🔍 **Answer key/Solution**

Bookmark FeedBack

Directions for questions 39 to 42: Answer the questions on the basis of the information given below.

Rakesh was a keen stock investor. During the Covid lockdown, since there was more time at hand he invested in 4 stocks A, B, C, D during the month of May.
The following data is the 5 day moving average (5 DMA) of these 5 stocks. 5 day moving average is the average prices of stocks on the last 5 days (including that day) when the stocks were traded in the stock exchange.
The following table gives the 5 DMA of stocks (in Rs.) at 1200 hours on 8 consecutive days when the markets were open.

Stock	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8
A	540	543	543	542	541	540	542	543
B	1020	1025	1024	1025	1024	1026	1028	1029
C	141	143	144	143	142	143	142	141
D	232	233	235	236	237	233	237	236
E	800	804	806	812	815	813	816	810

Assume all transactions happen at 1200 hours, and ignore all other costs involved in the transactions.

Q.41 [11594329]
If the 6 day moving average on Day 8 for B is Rs. 1,028, what is the price (in Rs.) of the stock on Day 8?

🔍 Answer key/Solution

Bookmark   FeedBack

Directions for questions 39 to 42: Answer the questions on the basis of the information given below.

Rakesh was a keen stock investor. During the Covid lockdown, since there was more time at hand he invested in 4 stocks A, B, C, D during the month of May.
The following data is the 5 day moving average (5 DMA) of these 5 stocks. 5 day moving average is the average prices of stocks on the last 5 days (including that day) when the stocks were traded in the stock exchange.
The following table gives the 5 DMA of stocks (in Rs.) at 1200 hours on 8 consecutive days when the markets were open.

Stock	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8
A	540	543	543	542	541	540	542	543
B	1020	1025	1024	1025	1024	1026	1028	1029
C	141	143	144	143	142	143	142	141
D	232	233	235	236	237	233	237	236
E	800	804	806	812	815	813	816	810

Assume all transactions happen at 1200 hours, and ignore all other costs involved in the transactions.

Q.42 [11594329]
Rakesh bought 100 stocks of E on each of the days from Day 3 to Day 7. He sold all of them at Rs. 820.10. The return on investment is closest to

1 ◯ 1 %

2 ◯ 0.5 %

3 ◯ 0.9 %

4 ◯ 1.25 %

🔍 Answer key/Solution

Bookmark   FeedBack

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

Ravi, the coach of Indian Cricket Team, needs to select the eleven players for the match against Australia. Five players – Virat, Rohit, Hardik, Bumrah, and Rahul are certain to feature in the playing eleven. Out of the remaining 5 batsmen – Pant, Shikhar, Iyer, Krunal, and Kartik; and out of the remaining 5 bowlers – Shami, Bhuvi, Jadeja, Kuldeep, and Chahal; he needs to select 6 more players, subject to the following conditions:

(i) Out of Iyer, Pant, and Kartik, exactly one player must be selected.
(ii) Krunal and Jadeja cannot be in the team together, while Chahal and Shikhar cannot be in the team together.
(iii) If Shami is selected, then Shikhar must be selected.
(iv) If Kartik is selected, then Shami must be selected.
(v) If Chahal is selected, then at least 3 more of the remaining 4 bowlers must be selected.
(vi) Pant will be selected if and only if both Shikhar and Jadeja are selected.

Q.43 [11594329]
In how many ways can Ravi select the playing eleven?

🔍 **Answer key/Solution**

[Bookmark]   [FeedBack]

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

Ravi, the coach of Indian Cricket Team, needs to select the eleven players for the match against Australia. Five players – Virat, Rohit, Hardik, Bumrah, and Rahul are certain to feature in the playing eleven. Out of the remaining 5 batsmen – Pant, Shikhar, Iyer, Krunal, and Kartik; and out of the remaining 5 bowlers – Shami, Bhuvi, Jadeja, Kuldeep, and Chahal; he needs to select 6 more players, subject to the following conditions:

(i) Out of Iyer, Pant, and Kartik, exactly one player must be selected.
(ii) Krunal and Jadeja cannot be in the team together, while Chahal and Shikhar cannot be in the team together.
(iii) If Shami is selected, then Shikhar must be selected.
(iv) If Kartik is selected, then Shami must be selected.
(v) If Chahal is selected, then at least 3 more of the remaining 4 bowlers must be selected.
(vi) Pant will be selected if and only if both Shikhar and Jadeja are selected.

Q.44 [11594329]
Who among the following players can never be selected for the playing eleven?

1 ○ Chahal

2 ○ Pant

3 ○ Krunal

4 ○ Jadeja

Answer key/Solution

Bookmark   FeedBack

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

Ravi, the coach of Indian Cricket Team, needs to select the eleven players for the match against Australia. Five players – Virat, Rohit, Hardik, Bumrah, and Rahul are certain to feature in the playing eleven. Out of the remaining 5 batsmen – Pant, Shikhar, Iyer, Krunal, and Kartik; and out of the remaining 5 bowlers – Shami, Bhuvi, Jadeja, Kuldeep, and Chahal; he needs to select 6 more players, subject to the following conditions:

(i) Out of Iyer, Pant, and Kartik, exactly one player must be selected.
(ii) Krunal and Jadeja cannot be in the team together, while Chahal and Shikhar cannot be in the team together.
(iii) If Shami is selected, then Shikhar must be selected.
(iv) If Kartik is selected, then Shami must be selected.
(v) If Chahal is selected, then at least 3 more of the remaining 4 bowlers must be selected.
(vi) Pant will be selected if and only if both Shikhar and Jadeja are selected.

Q.45 [11594329]
How many of the remaining 5 batsmen will always be selected?

1 ○ 1

2 ○ 2

3 ○ 3

4 ○ 4

Answer key/Solution

Bookmark   FeedBack

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

Ravi, the coach of Indian Cricket Team, needs to select the eleven players for the match against Australia. Five players – Virat, Rohit, Hardik, Bumrah, and Rahul are certain to feature in the playing eleven. Out of the remaining 5 batsmen – Pant, Shikhar, Iyer, Krunal, and Kartik; and out of the remaining 5 bowlers – Shami, Bhuvi, Jadeja, Kuldeep, and Chahal; he needs to select 6 more players, subject to the following conditions:

(i) Out of Iyer, Pant, and Kartik, exactly one player must be selected.
(ii) Krunal and Jadeja cannot be in the team together, while Chahal and Shikhar cannot be in the team together.
(iii) If Shami is selected, then Shikhar must be selected.
(iv) If Kartik is selected, then Shami must be selected.
(v) If Chahal is selected, then at least 3 more of the remaining 4 bowlers must be selected.
(vi) Pant will be selected if and only if both Shikhar and Jadeja are selected.

Q.46 [11594329]
In how many ways can Ravi select the playing eleven if Krunal is selected?

⚘ **Answer key/Solution**

Bookmark   FeedBack

Directions for questions 47 to 50: Answer the questions on the basis of the information given below.
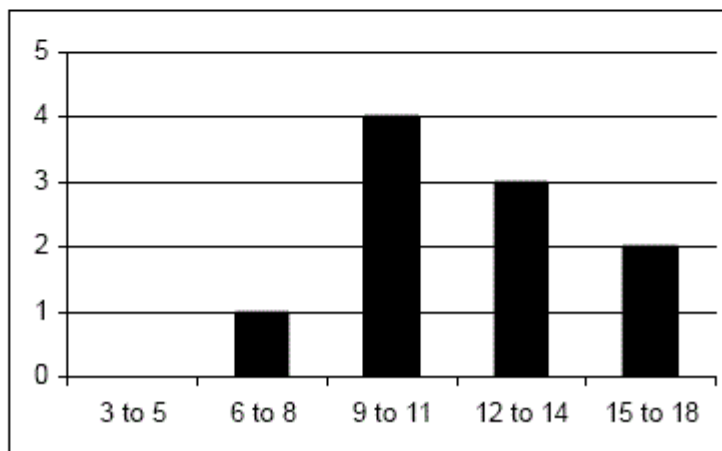
Ten players P – 1 through P – 10 play a game of rolling a dice. The game has three rounds. In the first round, each player rolls the dice once. Similarly, all the ten players roll the dice once each in the second and the third round. The dice is a standard dice having six faces numbered 1 through 6.
The score of a player in a round is the number displayed on the dice, when he/she rolled the dice in that particular round. The total score of a player is the sum of scores in the three rounds. The total scores in Round – 1, Round – 2 and Round – 3 were 45, 37 and 35 respectively.
The table below gives the score of the ten players in the three rounds. Some of the values of scores are missing.

	Round 1	Round 2	Round 3
P-1	6		1
P-2		3	5
P-3	4		
P-4	5	4	1
P-5		2	
P-6	6		1
P-7	4	1	2
P-8			4
P-9	1	3	
P-10		4	4

The histogram below displays the number of players whose total score was in the given range.
For example, 3 players had a total score between 12 and 14, both inclusive.

Additionally,
(i) P – 4 and P – 5 had identical total scores.
(ii) Considering all the rounds of all the players, the frequency of the score '5' was an even number.
(iii) The frequencies of the score '6' in Round – 3, Round – 2 and Round – 1 form an increasing Arithmetic Progression.
(iv) Exactly five players scored distinct scores in all the three rounds they played.
(v) The total score of P – 1 was more than that of P – 6.

Q.47 [11594329]
For how many of the ten players can the scores in their three rounds be uniquely determined?

1 ○ 8

2 ○ 7

3 ○ 5

4 ○ 6

Bookmark

FeedBack

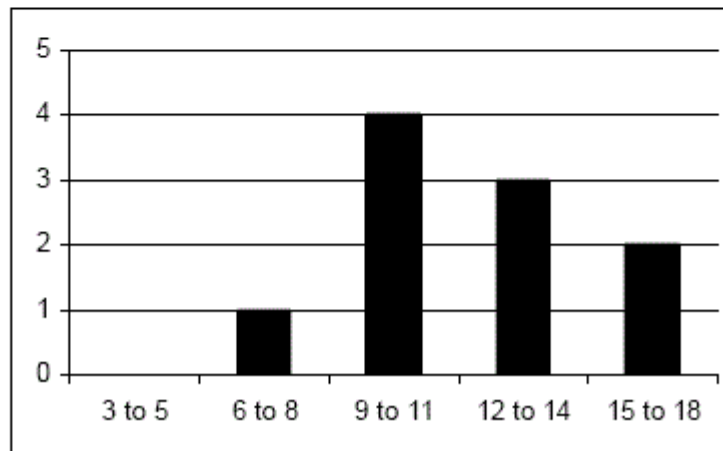**Directions for questions 47 to 50:** Answer the questions on the basis of the information given below.

Ten players P – 1 through P – 10 play a game of rolling a dice. The game has three rounds. In the first round, each player rolls the dice once. Similarly, all the ten players roll the dice once each in the second and the third round. The dice is a standard dice having six faces numbered 1 through 6.
The score of a player in a round is the number displayed on the dice, when he/she rolled the dice in that particular round. The total score of a player is the sum of scores in the three rounds. The total scores in Round – 1, Round – 2 and Round – 3 were 45, 37 and 35 respectively.
The table below gives the score of the ten players in the three rounds. Some of the values of scores are missing.

	Round 1	Round 2	Round 3
P-1	6		1
P-2		3	5
P-3	4		
P-4	5	4	1
P-5		2	
P-6	6		1
P-7	4	1	2
P-8			4
P-9	1	3	
P-10		4	4

The histogram below displays the number of players whose total score was in the given range.
For example, 3 players had a total score between 12 and 14, both inclusive.

Additionally,
(i) P – 4 and P – 5 had identical total scores.
(ii) Considering all the rounds of all the players, the frequency of the score '5' was an even number.
(iii) The frequencies of the score '6' in Round – 3, Round – 2 and Round – 1 form an increasing Arithmetic Progression.
(iv) Exactly five players scored distinct scores in all the three rounds they played.
(v) The total score of P – 1 was more than that of P – 6.

Q.48 [11594329]
Which of the following statements MUST be FALSE?

1 ○ The total score of P − 3 was more than that of P − 8

2 ○ The total score of P − 6 was less than that of P − 9

3 ○ The total score of P − 10 was less than that of P − 8

4 ○ The total scores of P − 1 and P − 2 were equal

🔍 Answer key/Solution

Bookmark   FeedBack

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

Ten players P − 1 through P − 10 play a game of rolling a dice. The game has three rounds. In the first round, each player rolls the dice once. Similarly, all the ten players roll the dice once each in the second and the third round. The dice is a standard dice having six faces numbered 1 through 6.
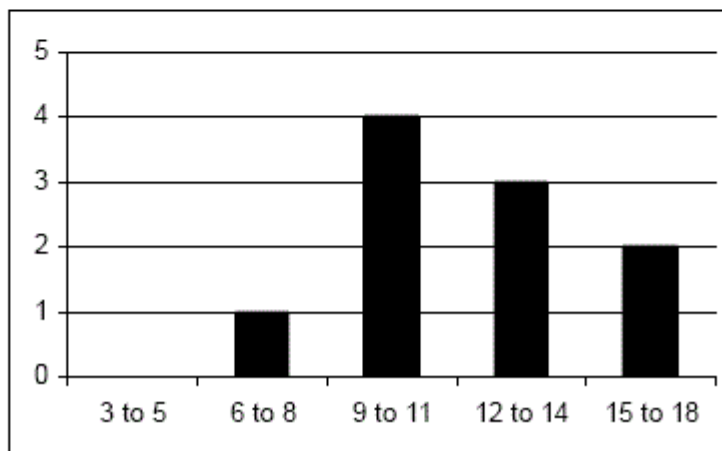The score of a player in a round is the number displayed on the dice, when he/she rolled the dice in that particular round. The total score of a player is the sum of scores in the three rounds. The total scores in Round − 1, Round − 2 and Round − 3 were 45, 37 and 35 respectively.
The table below gives the score of the ten players in the three rounds. Some of the values of scores are missing.

	Round 1	Round 2	Round 3
P-1	6		1
P-2		3	5
P-3	4		
P-4	5	4	1
P-5		2	
P-6	6		1
P-7	4	1	2
P-8			4
P-9	1	3	
P-10		4	4

The histogram below displays the number of players whose total score was in the given range.
For example, 3 players had a total score between 12 and 14, both inclusive.

Additionally,
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(iv) Exactly five players scored distinct scores in all the three rounds they played.
(v) The total score of P – 1 was more than that of P – 6.

Q.49 [11594329]
Considering all the rounds of all the players, what was the frequency of the score '5'?

🔍 Answer key/Solution

Bookmark   FeedBack

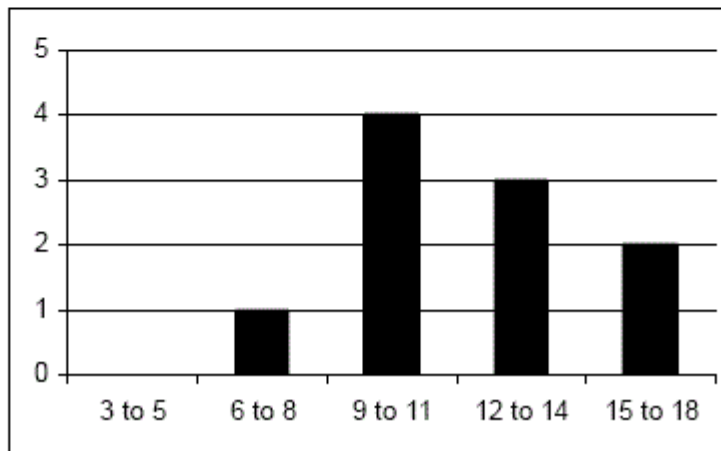**Directions for questions 47 to 50:** Answer the questions on the basis of the information given below.

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	Round 1	Round 2	Round 3
P-1	6		1
P-2		3	5
P-3	4		
P-4	5	4	1
P-5		2	
P-6	6		1
P-7	4	1	2
P-8			4
P-9	1	3	
P-10		4	4

The histogram below displays the number of players whose total score was in the given range.
For example, 3 players had a total score between 12 and 14, both inclusive.

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(iii) The frequencies of the score '6' in Round – 3, Round – 2 and Round – 1 form an increasing Arithmetic Progression.
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(v) The total score of P – 1 was more than that of P – 6.

Q.50 [11594329]
If P – 10 had a score of 5 in Round – 1, then what was the total score of P – 3?

1 ○ 14

2 ○ 15

3 ○ 16

4 ○ 15 or 16

🔍 Answer key/Solution

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Sec 3

Q.51 [11594329]
(a, b, c, d) is an ordered quadruple whose elements are chosen from the numbers {0, 1, 2, 3}. If a, b, c, d are not necessarily distinct, find the number of ordered quadruples that can be chosen such that ab − cd is odd.

1 ○ 96

2 ○ 56

3 ○ 48

4 ○ 112

🔍 Answer key/Solution

Bookmark   FeedBack

Q.52 [11594329]
How many integer points are there for which the polynomial $(x − 2^2)(x − 3^2)(x − 4^2)...(x − 11^2) \le 0$?

1 ○ 117

2 ○ 118

3 ○ 70

4 ○ 65

🔍 **Answer key/Solution**

| Bookmark | FeedBack |

Q.53 [11594329]

For two non-zero real numbers x and y, it is known that (x + y) = 4 and xy = −3. Find the value of the expression x + y + x^5 + y^5.

[✗]

🔍 **Answer key/Solution**

| Bookmark | FeedBack |

Q.54 [11594329]

What is the smallest value of n for which $\dfrac{n!}{(n-4)!}$ has 3 trailing zeroes?

[✗]

🔍 **Answer key/Solution**

| Bookmark | FeedBack |

Q.55 [11594329]

The two sides of a triangle are 20 and 30 units. The length of altitude to the third side is the average of the lengths of the other two altitudes. The length of the third side is

[✗]

Bookmark   FeedBack

Q.56 [11594329]

6 people P_1, P_2, P_3, ..., P_6 have to be arranged in a straight line. P_k has to be next to one of or both of P_{k+1} and P_{k-1}. Find the number of ways they can be arranged.

1 ○ 12

2 ○ 28

3 ○ 30

4 ○ 54

Bookmark   FeedBack

Q.57 [11594329]

A father wants to distribute a certain sum of money between his daughter and son in such a way that if both of them invest their shares in the scheme that offers compound interest at 20% per annum, for t and t + 2 years respectively, then the two shares grow to become equal. If the son's share was Rs. 4,000, then the total money distributed by the father was

1 ○ Rs. 5,760

2 ○ Rs. 2,778

3 ○ Rs. 6,778

4 ○ Rs. 9,760

Bookmark   FeedBack

Q.58 [11594329]

A can complete a job working alone in 40 days. A works with B on day 1, With C on day 2, with B again on day 3, with C on day 4 ... and so on. At the end of the 20th day, the job is completed. B does 30% of the work, C does 20% of the work. If they work on the job simultaneously the job gets completed on the

1 ○ 10th day

2 ○ 13th day

3 ○ 14th day

4 ○ 16th day

[✖]

🔍 **Answer key/Solution**

[Bookmark]   [FeedBack]

Q.59 [11594329]

Ratna's family of five (Ratna, her Spouse and 3 children) have to cross a river. The boat at the river bank is very small. It can accommodate 1 adult or a maximum of 2 kids. It takes 15 minutes to row across the river to the opposite bank. What is the least amount of time needed by the entire family to cross the river to the other river bank (in minutes)?

[✖]

🔍 **Answer key/Solution**

[Bookmark]   [FeedBack]

Q.60 [11594329]

If (0, 0), (6, 2), (-2, 6) and (a, b) are the coordinates of the vertices of a parallelogram, what is the least possible value of a + b?

[✖]

Bookmark   FeedBack

Q.61 [11594329]

A fruit seller has three types of fruits in his shop - mango, orange, and guava. On a particular day, he sells 75 mangoes, 90 oranges and 120 guavas. If none of the customers bought more than three fruits of each type, then what is the minimum number of customers that must have visited the shop that day?

1 ○ 30

2 ○ 35

3 ○ 45

4 ○ 40

✔

Answer key/Solution

Bookmark   FeedBack

Q.62 [11594329]

Brinda and Anusha run in opposite directions on a circular track, starting at diametrically opposite points. Each girl runs at a constant speed. They first meet after Brinda has run 250 meters. They meet for the third time after Anusha has run 600 meters past their first meeting point. What is the length of the track (in meters)?

1 ○ 600

2 ○ 700

3 ○ 800

4 ○ 1000

Q.63 [11594329]

The sequence a_n is given by $a_1 = 1$, $a_2 = 3$ and $a_{n+2} = a_n + a_{n+1}$ for $n \geq 1$. How many of the first 2021 elements of the sequence are odd?

✗

Answer key/Solution

Bookmark　　FeedBack

Q.64 [11594329]

Raghu and Ravi run 10 kilometers. They start at the same place, run 5 kilometers up a hill, and return to the starting point by the same route. Ravi has a 10-minute head start and runs at the rate of 15 km/hr uphill and 18 km/hr downhill. Raghu runs 12 km/hr uphill and 16 km/hr downhill. For how much time has Raghu travelled, when they pass in the opposite directions?

1　○ 6 min

2　○ 16 min

3　○ 26 min

4　○ 36 min

Answer key/Solution

Bookmark　　FeedBack

Q.65 [11594329]

Richa's chemistry teacher asked the class to make a saltwater solution with a 5 : 7 ratio of salt to water. Richa misheard her teacher and made a 100 mL solution with a 1 : 3 ratio of water to salt instead. Which of the following will give the correct solution?

1 ○ Addition of 180 ml of water

2 ○ Addition of 80 ml of water

3 ○ Addition of about 27 gms of salt

4 ○ Addition of 28.5 gms of salt

✔

                                   🔍 Answer key/Solution

Bookmark   FeedBack

Q.66 [11594329]

Ramu has a box that has 71 candies. He is allowed to take out exactly 30 candies from the box or to add exactly 18 candies to it. If he is allowed to do this as many times as possible which of the following is the smallest number of candies that can be in the box at any point of time?

1 ○ 1

2 ○ 5

3 ○ 7

4 ○ 11

✖

                                     🔍 Answer key/Solution

Bookmark   FeedBack

Q.67 [11594329]

Two jars each contain the same number of marbles, and every marble is either blue or green. In Jar A the ratio of blue to green marbles is 9 : 1, and the ratio of blue to green marbles in Jar B is 8 : 1. There are 95 green marbles in all. The marbles from both the jars are emptied into Jar C. A marbel is randomly picked from Jar C. The probability that it is blue is:

1 ○ 1/2

2 ○ 4/5

3 ○ 17/36

4 ○ 161/180

🔍 **Answer key/Solution**

Bookmark   FeedBack

Q.68 [11594329]

On the occasion of Diwali a shopkeeper is selling a gift hamper which has 5 boxes of sweets in it but is charging the list price of only 4 boxes. For every set of 4 such gift hampers bought by a customer, he is given 1 box of sweet as a free gift. If a customer buys 10 such gift hampers, then what is the percentage discount (nearest integer) availed by the customer?

✖

🔍 **Answer key/Solution**

Bookmark   FeedBack

Q.69 [11594329]

A 10 × 6 rectangular sheet is folded once to form a 5 × 6 sheet. This sheet is folded now to make a 5 × 3 sheet. This new sheet is folded to make a 2.5 × 3 sized sheet, then a 2.5 × 1.5 sized sheet...and so on. The same process is done 10 times. Now all the paper is unfolded to bring it back to the original 10 × 6 sheet. What is the sum of the lengths of all the creases on the paper?

1 ○ $2^9 - 2^4$

2 ○ $2^{14} - 2^4$

3 ○ 2^9

4 ○ 2^{14}

⚲ Answer key/Solution

Bookmark   FeedBack

Q.70 [11594329]

If log $_{1/10}$25x ≥ 0, then what is the least value of K for which $K^{2/3}$.x is an integer?

| ✖ |

⚲ Answer key/Solution

Bookmark   FeedBack

Q.71 [11594329]

Sum of the first 7 terms of an AP is same as the sum of the first 18 terms. What is the 25th term of this AP if the sum of the first 24 terms is 100?

⚲ Answer key/Solution

Bookmark   FeedBack

Q.72 [11594329]

The area of a circle with center O, is 64π. The side BC of an equilateral triangle ABC is the chord of this circle. The distance between the vertex A and the center of the circle O is 8√3. The center of the circle lies outside the triangle and the vertex A lies outside the circle. What is the length of the side of the equilateral triangle?

1 ○ 16

2 ○ 12

3 ○ 8

4 ○ 18

🔍 Answer key/Solution

Bookmark   FeedBack

Q.73 [11594329]

A point P is situated inside a convex quadrilateral ABCD such that sum of the distances of the vertices from it is minimum. If PA, PB, PC, and PD are 6, 8, 12,and 16 respectively, then the maximum possible area of ABCD is

1 ○ 216

2 ○ 432

3 ○ 108

4 ○ None of these

🔍 Answer key/Solution

Bookmark   FeedBack

Q.74 [11594329]

A shopping complex has 3 mobile stores A, B and C which sell mobiles of only two brands Oneplus and Apple. The ratio of number of Oneplus mobiles to Apple mobiles in stores A, B and C are in ratio 3 : 4, 4 : 5 and 8 : 3 respectively. The ratio of number of Oneplus mobiles to Apple mobiles in store A and B combined is 7 : 9 and that in store B and C combined is 5 : 2. Then which of the following could be the total number of mobiles in these three stores?

1 ○ 340

2 ○ 406

3 ○ 390

4 ○ 410

Answer key/Solution

Bookmark   FeedBack

Q.75 [11594329]
Two candles of equal length are lit at noon. One candle takes 10 hours to completely burn while the other takes 5 hours to completely burn. At what time will the slower burning candle be exactly twice as long as the faster burning one?

1 ○ 3.5 hours

2 ○ 3.33 hours

3 ○ 2.5 hours

4 ○ 2 hours

✖

Answer key/Solution

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