

Solutions of Mock CAT – 11 2017

Scorecard (propreview.jsp? qsetId=s3ZkA9ljjHQ=&qsetName=Mock CAT – 11 2017)	Accuracy (AccSelectGraph.jsp? qsetId=s3ZkA9ljjHQ=&qsetName=Mock CAT – 11 2017)	Qs Analysis (QsAnalysis.jsp? qsetId=s3ZkA9ljjHQ=&qsetName=Mock CAT – 11 2017)	Video Attempt (VideoAnalysis.jsp qsetId=s3ZkA9ljjHQ=&qsetName=Mock CAT – 11 2017)
VRC	DILR		QA

Sec 1

Directions for questions 1-6: The following passage consists of a set of six questions. Read the passage and answer the questions that follow.

Friedman had discovered in human capital theory more than just a means for boosting economic growth. The very way it conceptualised human beings was an ideological weapon too, especially when it came to counteracting the labour-centric discourse of communism, both outside and inside the US. For doesn't human capital theory provide the ultimate conservative retort to the Marxist slogan that workers should seize the means of production? If each person is already his own means of production, then the presumed conflict at the heart of the capitalist labour process logically dissolves. Schultz too was starting to see the light, and agreed that workers might actually be de facto capitalists: 'labourers have become capitalists not from the diffusion of the ownership of corporation stocks, as folk law would have it, but from the acquisition of knowledge and skill that have economic value.'

One can only guess what the Soviet Union made of all this. Human capital theory was literally 'disappearing' workers from the dominant narrative concerning what made capitalism tick. It was an ingenious ploy for spreading pro-capitalist sympathies throughout the US, particularly among the working classes who were starting to suspect that their current employer might be the real enemy. Now capitalists were speaking a different language: 'How can you be against us? In fact, you're one of us!' With the elections of Margaret Thatcher and Ronald Reagan, human capital theory found hospitable political environments in the Anglo world. What followed in the UK, the US and other countries could best be described as a massive decollectivisation movement. Society no longer existed. Only individuals and their families did. Hayek in particular was a major revelation for the Iron Lady, who endlessly praised him.

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What isn't a joking matter, however, is the brave new world of work that has followed in the wake of neoclassical ideas such as human capital theory. Only when the employee is framed in such an ultra-individualist manner could the regressive trend of on-demand (or 'zero-hours') employment contracts ever gain a foothold in the economy. What some have called the Uberisation of the workforce functions by reclassifying workers as independent business owners, thereby shifting all employment costs to the employee: training, uniforms, vehicles and almost everything else.

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Q.1

Which of the following is most likely to be a valid inference regarding the personalities mentioned in the passage?

- 1 ☐ Friedman belonged to the Chicago school during the Cold War
- 2 ☐ Hayek belonged to a Chicago school during a period in 20th-century history
- 3 ☐ Schultz belonged to the Chicago school during an extreme period in history
- 4 ☐ Friedman, Hayek and Schultz belonged to a Chicago school at some point in time

Solution:

Correct Answer : 1

The last paragraph tells us, "It [human capital theory] should therefore be approached as such, a rather eccentric and largely unrealistic relic of the *Cold War*. Only in *that highly unusual milieu* [Cold War] could mavericks such as Hayek and Friedman ever be taken seriously and listened to. In the face of communist collectivism, *the Chicago school* [to which Hayek and Friedman likely belonged] developed a diametrically opposed account of society. . . ." Since the Chicago school developed human capital theory, and we know that Friedman developed the theory, it can be inferred that he was part of the Chicago school. This makes option A correct. Options 2 and 4 mention "a Chicago school" instead of "the Chicago school", which changes the meaning from "a school of thought" to a literal, physical school. At the very least, it implies multiple schools of thought, which does not have support in the passage.

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Answer key/Solution

Option 3 might be true, but does not have support in the passage since we have no evidence to show that Schultz was part of the Chicago school.

FeedBack

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Q.2

The statement most likely to be accurate about human capital theory is:

- 1 ☐ the workers which were 'disappearing' were somehow connected to the Soviet Union.
- 2 ☐ it solves the presumed conundrum regarding the capitalist labour process.
- 3 ☐ the outcome of human capital theory has been negative for people.
- 4 ☐ it points out how people are attached to money, insecure and paranoid.

Solution:

Correct Answer : 3

The last paragraph talks about the effects of human capital theory, "Back in the 1960s, Friedman envisaged a society in which we'd all be wealthy, thriving entrepreneurs. What we got in reality was a pay cut, reduced holiday or sick leave, a chronic skills deficit, credit-card debt and endless hours of pointless work. If anything, the story of human capital theory in Western economies *has been about divesting in people, not the opposite.*", which are negative. This makes option C correct.

Option A gives a literal interpretation to disappearing, which is not intended in the passage.

Options B and D do not have support in the passage.

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Q.3

Friedman’s discovery of human capital theory is most likely to have been:

- 1 ☐ a serendipitous journey through formerly unexplored vistas of the mind
- 2 ☐ something he stumbled over while researching unrelated economic aspects
- 3 ☐ an extension of the golden age of the Renaissance, exemplifying creativity
- 4 ☐ something that he worked on in collaboration with Schultz

Solution:

Correct Answer : 1

We have not much in the passage about Friedman’s discovery. However, we can eliminate options that are beyond the scope of the passage (Option C), or that do not have support in the passage (Option D).

Option B is incorrect due to the use of stumbled over, which means “had difficulty with”, which does not have support in the passage.

Option A fits in with the meaning of discovery of a theory, which is something that must be thought of, which has previously not been thought of. This makes option A correct.

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Q.4

The biggest issue with human capital theory that the Soviet Union had is that:

- 1 ☐ the disappearing workers were hard to trace for communist countries, as opposed to capitalist ones
- 2 ☐ it re-envisioned the role of parts of the economy, in a manner that was contrary to the interests of the Soviet Union
- 3 ☐ the *bourgeoise* found the theory aligned to their interests, opposing communism.
- 4 ☐ it spread pro-capitalist sympathies throughout the Soviet Union, and specifically among the *proletariat*.

Solution:

Correct Answer : 2

This is a factual question, and not an inference-based one. Hence, we cannot go beyond what is mentioned in the passage - which is exactly what options C and D do, making them incorrect.

Option A gives a literal interpretation to disappearing, which is not intended in the passage.

Option B is correct since it states the basic issue correctly.

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Answer key/Solution

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Q.5

Which of the following pairs of events happen in the passage with one event occurring immediately after the other?

- 1 ☐ the discovery of human capital theory and guessing by the Soviet Union
- 2 ☐ rise to power of political demagogues, and actions based on their worldviews
- 3 ☐ the discovery of human capital theory and people in the US not being well
- 4 ☐ the nature of the times and the actions that people take based on their interpretation of the situation

Solution:

Correct Answer : 4

Option D is correct from the last paragraph, "It should therefore be approached as such, a rather eccentric and largely unrealistic relic of the Cold War. Only in that highly unusual milieu could mavericks such as Hayek and Friedman ever be taken seriously and listened to.", which says that the actions taken during the Cold War were dependent of people's interpretation of the situation.

Option A inverts the guessing given in the passage, which is about the author guessing what the Soviet Union is thinking, making it incorrect.

Option B is incorrect due to the presence of demagogues, who is "a person, especially an orator or political leader, who gains power and popularity by arousing the emotions, passions, and prejudices of the people.", for which there is no support in the passage.

Option C is incorrect since the two events do happen (refer the last paragraph), but there is a gap between them.

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Answer key/Solution

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Q.6

What is the author's tone when talking about human capital?

- 1 ☐ condescending
- 2 ☐ hilarious
- 3 ☐ analytical
- 4 ☐ dichotomous

Solution:

Correct Answer : 1

The author talks about human capital in paragraph three only. His tone when talking about how other people have understood human capital is best described as condescending. This makes option A correct.

The other options do not have support in the passage.

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Answer key/Solution

Directions for question 7: The question below has a set of statements. Each statement can be classified as one of the following:

A. Facts, which deal with the pieces of information that one has heard, seen or read, and which are open to discovery or verification (the answer option indicates such a statement with an 'F')

B. Inferences, which are conclusions drawn about the unknown, on the basis of the known (the answer option indicates such a statement with an 'I')

C. Judgements, which are opinions that imply approval or disapproval of persons, objects, situations and occurrences in the past, the present or the future (the answer option indicates such a statement with a 'J')

Select the answer option that best describes the set of statements and type that in the space provided below.

Q.7

I. The immediate point of the fish story is that the most obvious, ubiquitous, important realities are often the ones that are the hardest to see and talk about.

II. A huge percentage of the stuff that I tend to be automatically certain of is, it turns out, totally wrong and deluded.

III. None of this is about morality, or religion, or dogma, or the questions of life after death.

IV. The only capital-T Truth is about life before death.

1. JFIJ

2. JJFJ

3. JIIJ

4. JJII

Solution:

Correct Answer : 2

This answer can be found by the law of elimination. The first statement is a judgement according to every option. The first and the second statements are the author/speaker's opinions. These can't be verified. Hence, only options 2 and 4 remain. The fourth statement is a judgement too because of the word "only". Hence, 2 is the answer.

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Answer key/Solution

Directions for questions 8-13: The following passage consists of a set of six questions. Read the passage and answer the questions that follow.

According to psychologists Shira Maguen and Brett Litz, both experts on military trauma, the key precondition for moral injury, our so-called Achilles' heel is a sense of 'transgression', a betrayal of what's right. 'In the context of war,' they write, 'moral injuries may stem from direct participation in acts of combat, such as killing or harming others, or indirect acts, such as witnessing death or dying, failing to prevent immoral acts of others, or giving or receiving orders that are perceived as gross moral violations. The act may have been carried out by an individual or a group, through a decision made individually or as a response to orders given by leaders.' Indeed, commanders are not just responsible for the physical wellbeing of their soldiers, but through the moral consequences of their orders, their future mental health. Some military leaders are disturbed by the findings, and say the term moral injury impugns the character of their soldiers. But researchers argue it's quite the opposite: if soldiers felt nothing about taking the life of another human being, that would be indicative of sociopathy. Disturbance caused by killing indicates the presence of morality, not its lack.

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Q.8

It can be inferred from the passage that:

- 1 ☐ Wold's commanders, in taking an immoral decision, failed in their responsibility towards his future mental health
- 2 ☐ *Illiad*, Homer, Troy, Achilles and the Trojan horse have had an impact on the narrative in Iraq
- 3 ☐ Experts in combat trauma and military trauma are better judges of soldiers' temperaments in war compared to military leaders
- 4 ☐ Wold had more faith in the Marines than in psychiatrists and psychologists

Solution:

Correct Answer : 4

Option D is correct from the last sentence of the passage.

Option A is incorrect since it has *commanders* (plural) instead of *commander* (singular).

Option B does not have support in the passage, since these literary elements have been used to describe the situation, not shown to have any impact on it.

Option C has "in war", making it incorrect. The passage discusses the impact of things that happen in war on soldiers and their behaviour outside of war.

Bookmark

Answer key/Solution

Feedback

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Q.9

Based on the passage, it is most likely true that a Trojan horse:

- 1 ☐ that has successfully hidden in a warrior's mind can unleash the agents of destruction inside the gates of Troy
- 2 ☐ is a mythological, metaphorical allegory concretising abstract emotions
- 3 ☐ is the sense of self-condemnation and feelings of guilt, betrayal and shame hidden inside every warrior's head
- 4 ☐ is an allegorical metaphor emblematising abstract emotions found in mythology

Solution:

Correct Answer : 2

Option B is correct since the passage creates a *metaphor* (indirect comparison between emotions and the Trojan horse) using a *mythological* entity (Trojan horse) via *allegory* (representation of something abstract via a physical object).Option A is incorrect because a crucial part from the second paragraph is missing, "The sense of self-condemnation, those feelings of guilt, betrayal and shame, might remain hidden inside the warrior's head until he returns home, and *once the Trojan horse is safely inside the gates of Troy*, the agents of destruction are unleashed."

Bookmark

Answer key/Solution

Option C is incorrect since not every warrior has a Trojan horse inside his mind - only the one's that have a moral injury do.
 Option D is incorrect since it talks about "emotions found in mythology", which does not have support in the passage.

FeedBack

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Q.10

Based on the passage, we can say that:

- 1 ☐ it is ironic that Wold looked to those who had created a problem to solve it.
- 2 ☐ the nature of the decision-making process, and the source of the decision are important factors when deciding the impact of moral injuries
- 3 ☐ the disturbance of military leaders caused by the findings indicates the presence of morality in them
- 4 ☐ the disadvantages to the military from keeping accurate tabs on civilian deaths are less than the benefits

Solution:

Correct Answer : 1

Option A is correct since Wold had mental issues from his service in the Marines, but nevertheless re-joined them as a solution to them.

Option B is incorrect since the passage tell us in paragraph one that, "The act may have been carried out by an individual or a group, through a decision made individually or as a response to orders given by leaders." However, it does not detail the impact caused by these as separate events.

Option C is incorrect since it says "disturbance of" and not "disturbance in"

Option D is the opposite of what it should be based on paragraph three, "Numbers are so high it wouldn't benefit the military to keep accurate tabs; rigorous documentation would just fan the public relations nightmare and boost the propaganda value of the deaths for the other side."

FeedBack

Bookmark

Answer key/Solution

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Q.11

The author of the passage would most likely agree that:

- 1 ☐ Calm is more dangerous for soldiers than the horrors of war due to Trojan horses waiting to break out
- 2 ☐ Accidental killing of civilians in the Iraq war is more common than in other wars
- 3 ☐ A homicide convict who shows remorse for his actions exhibits a lack of the symptoms of sociopathy
- 4 ☐ Rejoining the Marines was a viable solution for Wold since he could not be treated by psychologists and psychiatrists

Solution:

Correct Answer : 3

Option C is correct from paragraph one, "But researchers argue it's quite the opposite: if soldiers felt nothing about taking the life of another human being, *that would be indicative of sociopathy*. Disturbance caused by killing indicates the presence of morality, not its lack." Since the convict feels remorse, he does not show the symptoms of sociopathy.

Option A is incorrect since it generalises beyond the scope of the passage - which talks about calm being dangerous for some soldiers.

Option B is incorrect since the passage, in paragraph three says, "Accidental killing of civilians in the Iraq War, as in all wars, are much more common than you can imagine." which refers to civilian killings in general being more common than expected, not comparing the Iraq war with other wars.

Option D goes beyond the scope of the passage, which does not comment on the viability of the action at all.

 Bookmark

 Answer key/Solution

FeedBack

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Q.12

Which of the following expressions best represents a lesson from the passage?

- 1 ☐ Still waters run deep
- 2 ☐ A rolling stone gathers no moss
- 3 ☐ An eye for an eye, and a tooth for a tooth
- 4 ☐ Those who live in glass houses should not throw stones at others

Solution:

Correct Answer : 1

The passage talks soldiers who are able to perform during war, but break down once they reach home as the Trojan horse inside their mind activates. This makes option A correct - which refers to the fact that the still waters of a lake may hide something meaningful in their depths which is not visible below the surface.

Option B means that somebody who does stick to a single task does not learn anything.

Option C refers to revenge and retribution. Option D refers to people who have themselves have something to hide. The options do not have support in the passage, making them incorrect.

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Q.13

In the context of the passage, we can most likely conjecture that a Trojan horse:

- 1 ☐ is an abstract, theoretical construct based on abstract, theoretical research

- 2 ☐ inside the mind is less dangerous than one outside the mind
- 3 ☐ refers to a gift sent to a city via a stratagem so as to be able to conquer it later
- 4 ☐ outside the gates of Troy is less dangerous than one inside the gates of Troy

Solution:

Correct Answer : 4

Option D is correct since the passage says that the Trojan horse waits until it is safely inside the gates of Troy to "unleash the agents of destruction" - making one outside less dangerous.

Option A is incorrect since the concept of the Trojan horse is based on practical research, not abstract.

Option B is incorrect since a Trojan horse inside the mind is more dangerous than one outside it - since it can unleash the agents of destruction once given an opportunity.

Option C is correct in a general context, while the question specifically asks in the context of this passage.

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Answer key/Solution

Direction for question 14: The question below has a set of statements. Each statement can be classified as one of the following:

A. Facts, which deal with the pieces of information that one has heard, seen or read, and which are open to discovery or verification (the answer option indicates such a statement with an 'F')

B. Inferences, which are conclusions drawn about the unknown, on the basis of the known (the answer option indicates such a statement with an 'I')

C. Judgements, which are opinions that imply approval or disapproval of persons, objects, situations and occurrences in the past, the present or the future (the answer option indicates such a statement with a 'J')

Select the answer option that best describes the set of statements and type that in the space provided below.

Q.14

I. Ram Nath Kovind, who became the second Dalit president of India, talked about the need to enhance opportunities for the underprivileged to help mould an egalitarian society in his maiden speech as the President of the nation.

II. In his speech, Kovind also paid tributes to Mahatma Gandhi and Deen Dayal Upadhyay saying, "We need to sculpt a robust, high growth economy, an educated, ethical and shared community, and an egalitarian society, as envisioned by Mahatma Gandhi and Deen Dayal Upadhyay."

III. The glittering ceremony for change of guard in India's highest constitutional office not just included an elaborate set of rituals but also saw a digital transition.

IV. The official handle called President of India started sharing details of his speech given in the Central Hall of Parliament after the oath-taking ceremony

1. JFJF
2. IFJF
3. FFJF
4. FIJF

Solution:

Correct Answer : 3

The first statement is a fact as it simply paraphrases what Kovind talked about in his maiden speech. All the details mentioned in the statement can be verified. Similarly the second statement is a quotation which is also verifiable. The third statement is a judgement because of "glittering and elaborate". The author is giving his opinion on the ceremony. The fourth statement is clearly a fact. Hence, the answer is option 3.

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Answer key/Solution

Directions for question 15: The following question consists of a set of five sentences. These sentences need to be arranged in a coherent manner to create meaningful paragraph. Type in the correct order of the sentences in the space provided below the question.

Q.15

1. He stared at his BlackBerry, his body suddenly rigid.
2. When Obinze first saw the e-mail, he was sitting in the back of his Range rover in still Lagos traffic, his jacket slung over the front seat.
3. First, he skimmed the e-mail, instinctively wishing it were longer.
4. In the last e-mail, she had wished him happiness in sunny sentences and he had hated it.
5. He read it again slowly and felt the urge to smooth something, his trousers, his shaved-bald head.

Solution:

Correct Answer : 21354

This paragraph is in a narrative format. 2 is the first sentence as it introduces the topic of the email. 1 follows next as it narrates the arrival of the email. 3 and 5 make a mandatory pair because of "first and read it again slowly". 4 comes last as it talks about another email that Obinze had received before this one. Hence the correct sequence is 21354.

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Answer key/Solution

Directions for questions 16-21: The following passage consists of a set of six questions. Read the passage and answer the questions that follow.

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Q.16

An example of an issue raised by the author and shown as resolved in the passage is that:

- 1 ☐ Walls desired a Thoreau not available to her, but after she wrote a book she could read him whenever she wanted
- 2 ☐ Walls was able to accurately represent Thoreau, even though the extant historical record of his time, prior to Walls, did not do him justice
- 3 ☐ while many people tended to view isolated aspects of Thoreau, Walls rectified this through presenting a coherent, cogent, united whole
- 4 ☐ while there was a dichotomy between those focused his environmentalism, and those focused on Walden, this is resolved by Walls

Solution:

Correct Answer : 3

Option C is correct since the author raises this issue in the second paragraph, and the last paragraph shows how it has been resolved by Walls.

Option A is incorrect since the issue is raised by Walls, not the author of the passage.

Option B is incorrect since it specifically says "the extant historical record of his time", whereas the inaccuracy was with authors closer to our time.

Option D is incorrect since it is incomplete without the reference to civil disobedience - which is there in both the second and the last paragraphs.

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Q.17

It can least likely be inferred from the passage that Thoreau:

- 1 ☐ was a polyglot who acquired learning in disparate fields and applied those learnings to achieve substantive outcomes
- 2 ☐ was a learned polymath whose writings on different subjects fetched him both acclaim and scorn
- 3 ☐ had a multi-faceted personality, not all facets of which were appreciated by people at all points in time
- 4 ☐ further research on Thoreau may possibly provide further insight into his personality, his behaviour, his thoughts and his relationships.

Solution:

Correct Answer : 1

Option A is correct since "polyglot" means someone who can speak many languages - for which there is no support in the passage.

Option B is correct from paragraph one, "... but was also a cutting-edge scientist, a visionary political theorist, a highly disciplined land surveyor, and a radical abolitionist?"

Option C is correct from paragraph two, which talks both about the many facets of Thoreau's personality and the fact that not people appreciated him.

Option D is correct from paragraph one, "He has left thousands of pages of writing to us in books, essays, poems, maps, and notes; his journal alone runs to over two million words." and Walls' work which shows that there is possibly much more left about Thoreau to discover.

Bookmark

Answer key/Solution

Feedback

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Q.18

The thematic highlight of the passage is that:

- 1 ☐ Thoreau was a complex, multi-layered personality to whom history has not done justice and this bias needs correction
- 2 ☐ Of all the biographies that have been written about Thoreau, the most accurate one is the recent one written by Walls
- 3 ☐ Thoreau had many layers to his personality, not all of which were known to all people, and Walls has done much to rectify this.
- 4 ☐ Walls has written a fine, nuanced account of a man hitherto not accurately known through the biographies written about him

Solution:

Correct Answer : 4

The question asks for the main idea of the passage, which is best reflected in Option D - that Walls has been able to write a better biography than the ones currently available.

Option A has the word "bias", which makes it incorrect, since it changes the tone of the passage.

Option B has "accurate" for what the passage calls insightful, making it incorrect.

Option C changes the meaning of the passage, by referring to "layers" rather than "facets", making it incorrect.

Bookmark

Answer key/Solution

Feedback

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Q.19

Among the reasons the world had to wait for *Thoreau: A Life* to succeed in being insightful about him, the one that is:

- 1 ☐ least likely is that Thoreau's mass of books, essays, poems, maps, and notes is disorganised and difficult to comprehend
- 2 ☐ most likely is the lack of incentive for people to go through the troves of information available about Thoreau
- 3 ☐ most likely is that Thoreau's mass of books, essays, poems, maps, and notes is disorganised and difficult to understand

4 ☐ least likely is that the lack of metadata about the archives left behind by Thoreau precluded their thorough analysis.

Solution:

Correct Answer : 4

Option A is plausible because Thoreau did leave behind a mass of data that could have been difficult to understand.

Option B discusses something not in the scope of the passage.

Between Options C and D, D is better since it has no support in the passage, compared to option C, which has some support.

This makes option D correct.

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Answer key/Solution

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Q.20

The best and most accurate summary of the biographies mentioned in the passage is that:

1 ☐ Walls' biography has greater historical accuracy compared to the biographies by Harding and Richardson, due to her having better researched the subject matter.

2 ☐ Walls' biography is more insightful than Harding and Richardson's biographies were of the characters and facts of Thoreau's life.

3 ☐ The biography written by Walls is incrementally better than the ones written by Harding and Richardson since it builds on top of what was earlier written.

4 ☐ the biographies are all good, but the one by Walls is insightful since it puts great emphasis on accurate portrayal of Thoreau.

Solution:

Correct Answer : 4

Option D is the only one that does not misrepresent fact stated in the passage, making it correct.

Options A and C have "biographies by Harding and Richardson", instead of "biographies by Harding and by Richardson" implying that all biographies are jointly written by both the authors, making the options incorrect.

Option C has "Harding and Richardson's biographies", which implies that the biographies are jointly written by the authors, making it incorrect.

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Q.21

The view(s) that the passage gives us of Henry David Thoreau are reminiscent of which of the following?

- 1 ☐ The legend of Joan of Arc
- 2 ☐ The moral of the story of the hare and the tortoise
- 3 ☐ The poem of the six blind men and the elephant
- 4 ☐ The fable of the stork and the jackal

Solution:

Correct Answer : 3

Option C is correct the poem talks of six blind men who encounter an elephant and have different views of the elephant since they are only able to feel it piecemeal, and not the entire thing. Similarly, as paragraph two says, "This is a lot for anyone to digest, and so sceptics and acolytes alike have tended to carve off whatever hunk of Thoreau's life and work they are able to get their mouths around." and the rest of the paragraph explains via examples, different people have focused on different aspects of Thoreau's life. The other options have a focus not relevant to the passage, making them incorrect.

Option A discusses the legend of Joan of Arc, who is not known to be a historical character, and who helped France win the war against England.

Option B has a moral where the hare who is faster, still loses the race against the tortoise since he is not consistent.

Option D refers to the fable where the jackal gives a flat plate from which the stork cannot feed, which the stork then pays by finding a high mouthed jar which the jackal cannot feed from.

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Answer key/Solution

Direction for Q22: In this question, five sentences are given. Of these, four sentences can be logically sequenced to make a coherent paragraph. One of the sentences does not belong to the paragraph. Type in the sentence number that doesn't fit into the paragraph.

Q.22

1. In 1865, four Fenian leaders – Charles Joesph Kickham, John O'Leary, Thomas Clarke Luby, and Jeremiah O'Donovan Rossa—were sentenced to long-term imprisonment for publishing treasonable documents.
2. During the next two years, plans gradually developed for a projected nationwide rising, financed largely by funds collected in the United States.
3. Gladstone was forced to introduce his Land Act of 1881, conceding fixity of tenure, fair rents, and free sale of the tenant's interest.
4. In Ireland, Fenian ideals were propagated in the newspaper The Irish People.
5. It took place in March 1867 but was easily crushed and its leaders imprisoned.

Solution:

Correct Answer : 3

The correct order of the paragraph is 4125. 4 opens the paragraph by talking about the rise of Fenian ideals. 1 talks about the Fenian leaders who were imprisoned for publishing the documents. 2 takes the idea further. 5 talks about the next year.

However, 3 is the odd one out as it talks about the year 1881 which will come after this paragraph is over.

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Answer key/Solution

Direction for Q23: In this question, five sentences are given. Of these, four sentences can be logically sequenced to make a coherent paragraph. One of the sentences does not belong to the paragraph. Type in the sentence number that doesn't fit into the paragraph.

Q.23

1. Debates about borders are sharply polarised, and they're often ill-informed.
2. As the debate about Europe's borders rages on, it is worth taking a step back and asking this question: Can humanity live without borders?
3. Some regard borders as an affront to the human condition; others are convinced that borders make up the very foundation of their security.
4. Others, however, especially those who are less travelled and more community-bound, regard borders as essential to their security – both their psychological and cultural security.
5. Europe, as well as many other parts of the world, has become obsessed with borders.

Solution:

Correct Answer : 4

The correct order is 5132. Option 5 introduces the concept of borders, the main idea of the paragraph. Option 1 takes the idea further by talking about the nature of these debates. Options 3 and 2 follow next. Option 4 is the odd one out as there is no precedence for the word "however" in the paragraph. Option 3 has the words "some" and "other". So, option 4 is the odd one out.

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Answer key/Solution

Direction for Q24: The following question consists of a paragraph from which the last sentence has been deleted. From the given options, choose the one which completes the paragraph in a logical and coherent manner. Type the number of that option in the space provided below the question.

Q.24

You've probably met people who are experts at mastering their emotions and understanding the emotions of others. When all hell breaks loose, somehow these individuals remain calm. They know what to say and do when their boss is moody or their lover is upset. It's no wonder that emotional intelligence was heralded as the next big thing in business success, potentially more important than IQ, when Daniel Goleman's bestselling book, *Emotional Intelligence* arrived in 1995. After all, whom would you rather work with—someone who can identify and respond to your feelings, or someone who has no clue?

1. The traditional foundation of emotional intelligence rests on two common-sense assumptions.
2. Whom would you rather date?
3. Copious research, from my lab and others, shows that faces and bodies alone do not communicate any specific emotion in any consistent manner.
4. In short, when it comes to detecting emotion in other people, the face and body do not speak for themselves.

Solution:

Correct Answer : 2

The penultimate sentence asks a question regarding "whom would you rather work with". It talks about the main idea of the paragraph which is about people who are masters at remaining calm during tense situations. 2 creates a mandatory pair with this sentence. The other sentences introduce new ideas and don't complete this paragraph. Hence, 2 is the answer

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Answer key/Solution

Directions for questions 25-27: The following passage consists of a set of three questions. Read the passage and answer the questions that follow.

Yes, it's true, I am engaged in "cultural appropriation," which, according to some moral custodians, makes it both unseemly and illegitimate for a Caucasian however well meaning, to depict a person of colour. I, quite literally, don't have the bloodlines to portray Tom Molineaux, at least not in a creative or fictional format. As it happens, I wrote about Molineaux for *The New Yorker* in 1998 on publication of *Black Ajax*, a sly and rambunctious novel by George MacDonald Fraser. Relying on reports by the British press, Fraser presented Molineaux as a brutish simpleton with occasional flashes of insight, whose bawdy attitude and outrageous behaviour are documented by multiple narrators. My screenplay and treatment take a very different tack, and my Molineaux is nothing like Fraser's. Nonetheless, I am guilty of putting thoughts into his head and writing dialogue for black people. In which case, I am also guilty of theft. According to the legal scholar Susan Scafidi in *Who Owns Culture?*, cultural appropriation refers to "taking intellectual property, traditional knowledge, cultural expressions, or artefacts from someone else's culture without permission. This can include unauthorized use of another culture's dance, dress, music, language, folklore, cuisine, traditional medicine, religious symbols, etc." This definition appeared in Lionel Shriver's controversial keynote address at the Brisbane Writers Festival last fall. Shriver, who wore a Sombrero for part of her talk, argued that she had the right to speak in the voices of people whose culture and ethnicity differed from her own. Otherwise, all she "could write about would be smart-alecky 59-year-old 5-foot-2-inch white women from North Carolina." Upset by the restrictions imposed by cultural arbiters, Shriver confessed that when she started out as a novelist she "didn't hesitate to write black characters [...] or to avail [herself] of black dialects," but now she is "much more anxious about depicting characters of different races, and accents make [her] nervous." One sympathizes, until she asserts that "[m]embership of a larger group is not an identity. Being Asian is not an identity. Being gay is not an identity. Being deaf, blind, or wheelchair-bound is not an identity, nor is being economically deprived." Really? Because unless one is a Buddhist or the late Derek Parfit, who maintained that identity is too fluid to be any one thing and ultimately doesn't matter, identity is darn well bound up with race, appearance, background, station in life, and ultimately does matter — if not to you, then to people who know you. Shriver, however

wasn't being merely provocative; her larger point is that when we embrace narrow, group-based identities too fiercely, we cling to the very cages in which others would seek to trap us. We pigeonhole ourselves.

Q.25

Assuming statements in the passage as valid, the least valid reason for the author to not have a valid claim:

- 1 ☐ in depicting Tom Molineaux is that, in the eyes of some moral custodians, they lack the bloodlines to portray a person of colour
- 2 ☐ in depicting persons of colour is the issues of cultural appropriation pointed out by Lionel Shriver and originally raised by Susan Scafdi
- 3 ☐ in depicting Tom Molineaux is that even though his screenplay and treatment take a different direction from Fraser's, he is guilty of writing dialogue for black people
- 4 ☐ in depicting persons of colour is the nature of the format chosen by the author for penning his thoughts and communicating with his audience

Solution:

Correct Answer : 1

Option A is otherwise correct from "Yes, it's true, I am engaged in "cultural appropriation," which, according to some moral custodians, makes it both unseemly and illegitimate for a Caucasian, however well meaning, to depict a person of colour. " but says, "...in the eyes of some moral custodians, *they*..." which refers to the moral custodians and not the author. This makes it an invalid reason and hence, is the right option.

Option B is mentioned in paragraph one, and discussed in detail in paragraph two.

Option C is a valid reason from paragraph one, "My screenplay and treatment take a very different tack, and my Molineaux is nothing like Fraser's. Nonetheless, I am guilty of putting thoughts into his head and writing dialogue for black people."

Option D is valid from "I, quite literally, don't have the bloodlines to portray Tom Molineaux, *at least not in a creative or fictional format.*" which means that had the format been different, then the author could have possibly gone ahead.

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Answer key/Solution

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Q.26

The least precise statement with reference to the passage is least likely:

- 1 ☐ that independent of Susan Scafdi and Lionel Shriver, white women in the United States literally have a non-fluid, non-provocative "identical" reason for writing about black characters.
- 2 ☐ Lionel Shriver, considering her verbal denouements, is not the kind of person who easily lends oneself to being sympathised with - rather the opposite figuratively true
- 3 ☐ that the hat worn by Lionel Shriver is an indication, literally and figuratively, of her arguments, her thought processes and her beliefs
- 4 ☐ that the Tom Molineaux of George Macdonald Fraser is, quite literally, a very different person from the one dealt in the author's screenplay and treatment

Solution:

Correct Answer : 3

The question asks for the statement least likely to be least precise - hence, most likely to be most precise.

Option C is correct from paragraph three, "Shriver, who wore a *Sombrero* [Mexican hat] for part of her talk, *argued* that she had the right to speak in the voices of people whose culture and ethnicity differed from her own." Option C uses a secondary meaning of argument, "a reason or set of reasons given in support of an idea, action or theory". The hat also shows her thought process and beliefs, since she is willing to translate her thoughts and words into actions.

Option A has a bunch of keywords present in the passage, but does not make much sense with reference to the passage, making it incorrect.

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Answer key/Solution

Option B has no basis in the passage.

Option D converts what is figuratively true about Tom Molineaux - that the author's perception of him is different from Fraser's - and states it literally.

Feedback

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Q.27

The author's point of view with respect to the depiction of men of colour is that:

- 1 ☐ Lionel Shriver's arguments take precedence over Susan Scafidi's definitions since the author partially sympathizes with the former against the latter
- 2 ☐ the reader must arrive at his own understanding, based on the difference between the arguments of Lionel Shriver and Susan Scafidi.
- 3 ☐ her stance making it difficult to sympathize with Lionel Shriver, Susan Scafidi's expositions carry greater import for authors
- 4 ☐ the reader must understand the difference that while the author is merely engaged in cultural appropriation, with regard to theft, he is guilty.

Solution:

Correct Answer : 2

This question essentially asks (indirectly) for the tone of the passage, which is balanced throughout, since the author puts forth and discusses both sides of the argument in a thorough and fair manner. Hence, the only suitable option is B, which is balanced. Options A and C give greater weightage to one personality over another, which the author does not, making them incorrect.

Option D focuses on a distinction not made by the passage, making it incorrect.

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Answer key/Solution

Directions for questions 28-30: The following passage consists of a set of three questions. Read the passage and answer the questions that follow.

Two books, from decidedly differing perspectives, take on the very myth of modernism itself, and the idea that religion and art necessarily became separated in the midst of it. Donald Preziosi's *Art, Religion, Amnesia: The Enchantments of Credulity* uses a sometimes overwrought reliance on poststructuralism to dissolve the religion-art binary, coming to the verdict that "[a]rt and religion are variant yet mutually defining and co-determined answers or approaches to the same questions of the ethics of the practice of the self." This is a postmodernist, Foucauldian self, lacking stability, though it's not difficult to see this as a modification of the modernist myth of the artist, free from encumbrance, at the root of both the artistic and religious contemporary project. In *Modern Art and the Life of a Culture*, Jonathan A. Anderson and William A. Dyrness also rewrite modernist history, but from a Protestant theological perspective, arguing "that the crises and labors of modernist art were, among other things, *theological* crises and labors." Dig around in art, and we find religion. Dig around in religion, and we find art.

The Kerry James Marshall retrospective *Mastry* (at the Met Breuer, New York) is a recent case in point. Critics noted how Marshall plays with the past and reimagines history, but they readily overlooked the religious dimensions of that history, the constant presence of African deities and Haitian vodou signs, as well as the iconography of Christian saints, halos, angels, and icons that flow through his work. Marshall himself has been explicit about his use of the Yoruban pantheon as heroic figures suitable for contemporary African-American life, as West African orishas are transformed into superheroes in his ongoing project *Rythm Mastr*. Such key influences escaped the notice of almost all major reviews of the show.

Art and religion co-evolved through human history in ways that have generally been impossible to detangle. From *Homo neanderthalensis* to *Homo sapiens* from cave paintings to Baroque altarpieces, the ritualistic uses of art were never difficult to see, as the symbolic dimensions of objects pointed transcendently beyond their immediate use value. The dominant myth of modernity (and modernism) is that we have finally freed ourselves (and our art) from a parasitic dependence on religion and its symbols, rituals, and myths. In other words, in Max Weber's famous phrase, modernity is characterized by the "disenchantment of the world." That's clearly the credo of contemporary writers on art. Elkins's "history of modernism" is a story we tell ourselves about art, the artist, and her or his seemingly "creative individuality," not constrained by outside forces. But, to use a well-worn modernist trope, the repressed eventually returns. Contra Freud, we never really did outgrow religion, we just choose to ignore it.

Q.28

It can be inferred from the passage that:

- 1 ☐ Modern humans, by ignoring religion, have freed themselves from the parasitic relationship with religion and its symbols, rituals, and myths.
- 2 ☐ Haitian vodou represents an important, but overlooked, dimension of Kerry James Marshall's work in most major reviews of *Rythm Mastr*.
- 3 ☐ From a historical and a postmodernist perspective, religion and art are an inter-linked spectrum, rather than black and white.
- 4 ☐ To the author, cave paintings are representative of the art of *Homo neanderthalensis*, while Baroque altarpieces are representative of *Homo sapiens*.

Solution:

Correct Answer : 3

The first part of Option C refers to the historical perspective, which is correct from the third paragraph, "Art and religion co-evolved through human history in ways that have generally been impossible to detangle." The postmodernist perspective is correct from, "Donald Preziosi's *Art, Religion, Amnesia: The Enchantments of Credulity* uses a sometimes overwrought reliance on poststructuralism to *dissolve the religion-art binary* [not black and white], coming to the verdict that "[a]rt and religion are *variant yet mutually defining and co-determined answers or approaches* [an inter-linked spectrum] to the same questions of the ethics of the practice of the self." This is a postmodernist, Foucauldian self". This makes option C correct.

Option A converts the discussion of *modernity* and *modernism* in the passage, into modern humans, making it incorrect.

Option B is otherwise correct from paragraph two, "Critics noted how Marshall plays with the past and reimagines history, but they readily overlooked the religious dimensions of that history, the constant presence of African deities and Haitian vodou signs, as well as the iconography of Christian saints, halos, angels, and icons that flow through his work." but has *Rythm Mastr* where it should have *Mastry*.

Option D might possibly be correct, but is a little far-fetched. Moreover, it has "Baroque altarpieces are representative of *Homo sapiens*", rather than of their art, going beyond the scope of the passage and making it incorrect.

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Q.29

The exposition in the passages does not make use of which of the following devices in order to communicate its points?

- 1 ☐ Use sequential, structured name-dropping in order to substantiate points made through reasoning by the author
- 2 ☐ Substantiation and emphasis of abstract, analytical reasoning through the use of a related, concrete, real-world example
- 3 ☐ Quoting text to present ideas not subscribed to by the author, or highlight that it has been quoted or both
- 4 ☐ Repetition of ideas in different forms to emphasise their importance and to communicate them to the reader

Solution:

Correct Answer : 1

Name-dropping refers to "the practice of casually mentioning the names of famous people one knows or claims to know in order to impress others." and hence is not appropriate with respect to the passage, making option A correct.

Option B has been used multiple times in the passage, making it incorrect. For example, the beginning of paragraph two uses an example to substantiate the statement at the end of paragraph three. Similarly, paragraph three starts with a statement, which is then immediately substantiated.

Option C is incorrect since the passage does quote text.

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Option D is incorrect from paragraph three, "The dominant myth of modernity (and modernism) is that we have finally freed ourselves (and our art) from a parasitic dependence on religion and its symbols, rituals, and myths. *In other words*, in Max Weber's famous phrase, modernity is characterized by the "disenchantment of the world."

FeedBack

Directions for questions 28-30: The following passage consists of a set of three questions. Read the passage and answer the questions that follow.

Two books, from decidedly differing perspectives, take on the very myth of modernism itself, and the idea that religion and art necessarily became separated in the midst of it. Donald Preziosi's *Art, Religion, Amnesia: The Enchantments of Credulity* uses a sometimes overwrought reliance on poststructuralism to dissolve the religion-art binary, coming to the verdict that "[a]rt and religion are variant yet mutually defining and co-determined answers or approaches to the same questions of the ethics of the practice of the self." This is a postmodernist, Foucauldian self, lacking stability, though it's not difficult to see this as a modification of the modernist myth of the artist, free from encumbrance, at the root of both the artistic and religious contemporary project. In *Modern Art and the Life of a Culture*, Jonathan A. Anderson and William A. Dyrness also rewrite modernist history, but from a Protestant theological perspective, arguing "that the crises and labors of modernist art were, among other things, *theological* crises and labors." Dig around in art, and we find religion. Dig around in religion, and we find art.

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Q.30

Based on the passage, which of the following is a commonality most likely to be true?

- 1 ☐ Both *Mastry* and *Rythm Mastr* utilise similar religious imagery in order to achieve their artistic objectives.
- 2 ☐ The majority of the critics who reviewed *Mastry* subscribed to modernist viewpoints and modernism.
- 3 ☐ The majority of the critics who reviewed *Mastry* lacked in powers of observation leading to lacunae in their writings.
- 4 ☐ Both *Homo neanderthalensis* and *Homo sapiens* were mistaken in their subscription to modernist viewpoints and modernism.

Solution:

Correct Answer : 2

Modernist viewpoints believe that art and religion are separate. This makes the critics who reviewed *Mastry* and *Rythm Mastr* but failed to notice the linkage between them likely to be subscribe to those viewpoints. This makes option B correct.

Option A is incorrect because it talks of "similar religious imagery" whereas the imagery in the two, while religious, is not similar.

Option C is incorrect since it can be inferred that the issue with the critics was likely their thought process rather than their powers of observations.

Option D is incorrect since the passage does not have anything to substantiate that *Homo neanderthalensis* subscribed to the modernist viewpoints.

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Answer key/Solution

Directions for question 31: The question below has a set of statements. Each statement can be classified as one of the following:

- A. Facts, which deal with the pieces of information that one has heard, seen or read, and which are open to discovery or verification (the answer option indicates such a statement with an 'F')
- B. Inferences, which are conclusions drawn about the unknown, on the basis of the known (the answer option indicates such a statement with an 'I')
- C. Judgements, which are opinions that imply approval or disapproval of persons, objects, situations and occurrences in the past, the present or the future (the answer option indicates such a statement with a 'J')

Select the answer option that best describes the set of statements and type that in the space provided below.

Q.31

- I. Since earliest times birds have been not only a material but also a cultural resource.
- II. Supernatural beliefs about birds probably took hold as early as recognition of the fact that some birds were good to eat.
- III. Most of the early writings on birds are more anecdotal than scientific, but they represent a broad foundation of knowledge, including much folklore, on which later work was based.
- IV. The "Peterson Field Guide Series" includes Peterson's own books on birds of western North America, eastern and central North America.

1. JJJJ
2. JFJF

3. JJJF
4. JJFF

Solution:

Correct Answer : 3

The first three statements are the author's opinions. None of these can be verified. The last statement can be verified as it talks about a book or series and its content. Hence, option 3 is the answer.

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Answer key/Solution

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Direction for Q32: The following question consists of a paragraph from which the last sentence has been deleted. From the given options, choose the one which completes the paragraph in a logical and coherent manner. Type the number of that option in the space provided below the question.

Q.32

On the cusp of change, in that last anteroom of childhood before adolescence, nine-year-olds don't think in terms of demographic statistics or global averages. But when they talk about their lives, it's clear: Children at this age are unquestionably taking account of their own possibilities—and the limits gender places on them. To get kids' perspectives, National Geographic fanned out into 80 homes over four continents. From the slums of Rio de Janeiro to the high-rises of Beijing, we posed the same questions to a diverse cast of nine-year-olds.

Being nine, they didn't mince their words.

Avery Jackson swipes a rainbow-streaked wisp of hair from her eyes and considers the question. "Everything about being a girl is good!"

For global citizens under age 10, recent decades have seen more gender equity in areas such as primary school education access, says UNICEF's Claudia Cappa.

Past the age-10 mark, however, the closing gap is replaced by a wide gulf.

Solution:

Correct Answer : 1

This paragraph talks about the questions posed to some nine year old kids on issues of gender. The penultimate sentence talks about this concept too. Options 3 and 4 talk about an issue which is yet to be introduced in the paragraph. Option 2 is too specific and will need an introductory sentence. Option 1 creates a mandatory pair with the last but one sentence. Hence, option 1 is the answer.

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Answer key/Solution

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Directions for Q33: In this question, five sentences are given. Of these, four sentences can be logically sequenced to make a coherent paragraph. One of the sentences does not belong to the paragraph. Type in the sentence number that doesn't fit into the paragraph.

Q.33

1. In preparation for the new owners, the house had been stripped down to its hardwood floors and wainscoted walls.
2. Balavil sits in the Scottish Highlands, bracketed between the Spey and the Monadhliath Mountains.
3. After the closing, as if to underscore the end of a chapter, agent Pirie, who had been doggedly trailing Macpherson-Fletcher to ensure the deadline was met, drilled the garage door shut to secure the premises.
4. Into storage went the glass-eyed trophy heads that hung on walls (stags, gazelles, two Cape buffalo, game birds), the mahogany dining table, silver meat domes and branched candelabras.
5. Down came ancestral portraits; closets were emptied of coats, breeks, caps, and waistcoats in the blue, tan, and brown estate tweed.

Solution:

Correct Answer : 2

The correct order is 1543. This paragraph talks about a particular house and how its ownership is changing. 2 talks about a particular place and its geographic location. Hence, 2 is the odd one out.

Bookmark

Answer key/Solution

FeedBack

Directions for question 34: The following question consists of a set of five sentences. These sentences need to be arranged in a coherent manner to create meaningful paragraph. Type in the correct order of the sentences in the space provided below the question.

Q.34

1. Whether it is in the context of the goods and services tax (GST) or the Swachh Bharat Abhiyan, the impact of such measures and proposals on the constitutional relationship between the union and the states is usually what is discussed.
2. India's government exists in three tiers: centre, state, and local bodies, such as municipal authorities and panchayats.
3. Federalism in India tends to focus discussion almost exclusively on centre-state relations.
4. While this is necessary and relevant in the Indian context, this is not the only frame within which we should view the topic.
5. As a federal system though, it is only two-and-a-half tiers. This is because the third tier, comprising the municipalities and panchayats, only has such powers that the state governments choose to give it.

Solution:

Bookmark

Correct Answer : 31425

3 is clearly the opening sentence as it introduces Federalism and the nature of its discussion in India. 1 explains 3 and hence, creates a mandatory pair. The word "this" in option 4 talks about 1. Hence, 14 is a mandatory pair. 2 and 5 also create a mandatory pair as "though" in 5 talks about the three tier structure mentioned in 2. Hence, 31425 is the correct order.

Answer key/Solution

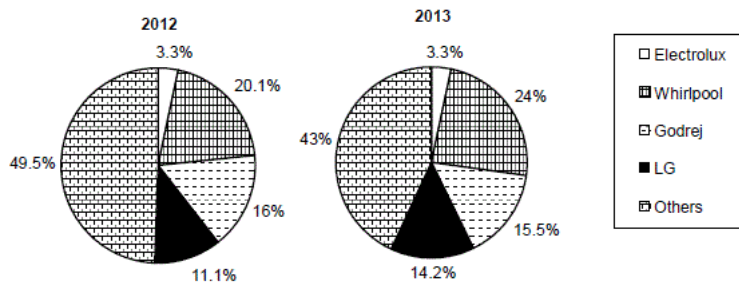
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Sec 2

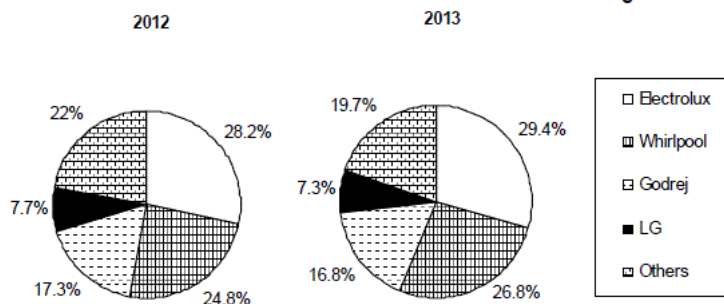
Directions for questions 35 to 38: Answer the questions on the basis of the information given below.

The data given below represents the market share of sales volume of refrigerators in India in the years 2012 and 2013.

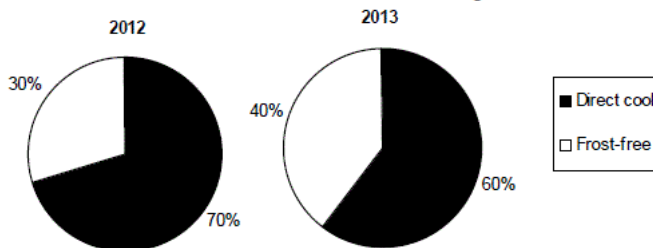
Volume wise distribution of market share of frost-free refrigerators



Volume wise distribution of market share of direct-cool refrigerators



Total market wise distribution of refrigerators



In 2012, the total market size of refrigerators was 7,50,000 units and in 2013, the market size grew by 10% compared to that in 2012.

Q.35

In 2012, the per unit price of each brand of frost-free refrigerators was twice that of direct-cool refrigerators and the per unit price of direct cool refrigerators of Godrej and LG were in the ratio 1.5 : 1. The sales revenue of Godrej was approximately how many times that of LG in 2012?

- 1 ☐ 2.7
- 2 ☐ 1.8
- 3 ☐ 0.37
- 4 ☐ Data insufficient



Solution:

Correct Answer : 1

Your Answer : 1

Bookmark

Answer key/Solution

In 2012, the volumes of LG and Godrej are given below.
Let LG direct cool unit price be x.

	Frost-free		Direct cool		Total sales
	Units	Sales	Units	Sales	
LG	24975	49950x	40425	40425 x	90375x
Godrej	36000	108000x	90825	136237.5x	244237.5x

Hence, Godrej total sales than that of LG

$$= \frac{244237.5x}{90375x} = 2.7 \text{ times}$$

Alternative method:

Assume total market size of refrigerator be 100 units.

	DC = 70 units		FF = 30 units	
	Number of units	Turnover	Number of units	Turnover
Godrej	$17.3\% \times 70 = 12.11$	18.16	$16\% \times 30 = 4.8$	14.4
LG	$7.7\% \times 70 = 5.39$	5.39	$11.1 \times 30 = 3.33$	6.66

Hence, sales turnover of Godrej to LG refrigerator in

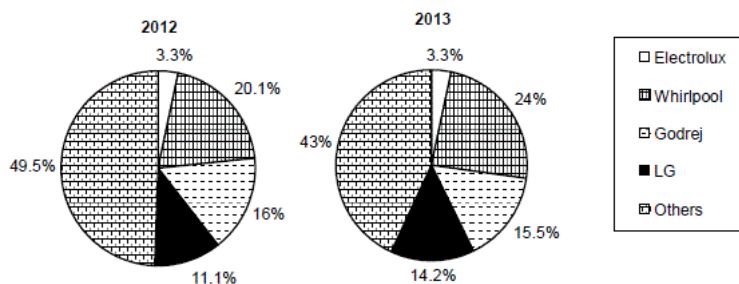
$$2012 = \frac{32.56}{12.05} = 2.7$$

FeedBack

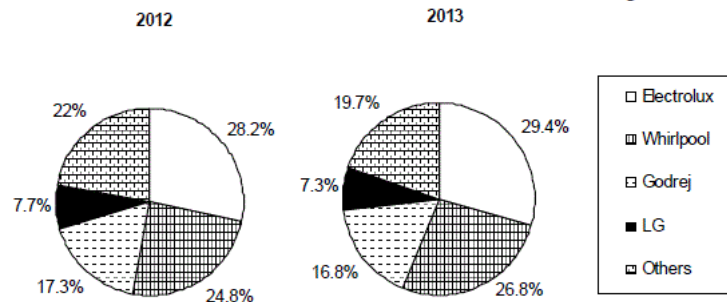
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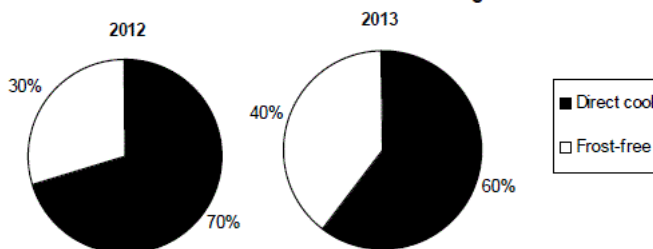
Volume wise distribution of market share of frost-free refrigerators



Volume wise distribution of market share of direct-cool refrigerators



Total market wise distribution of refrigerators



In 2012, the total market size of refrigerators was 7,50,000 units and in 2013, the market size grew by 10% compared to that in 2012.

Q.36

What was the ratio of absolute percentage change in sales volume of direct-cool to that of frost-free refrigerators in 2013 over 2012?

1 5 : 48

2 ☐ 3 : 43 ☐ 6 : 494 ☐ 1 : 6**Solution:****Correct Answer : 3****Your Answer : 3**

$$\text{Growth rate of direct cool} = \frac{495 - 525}{525} = \frac{2}{35}$$

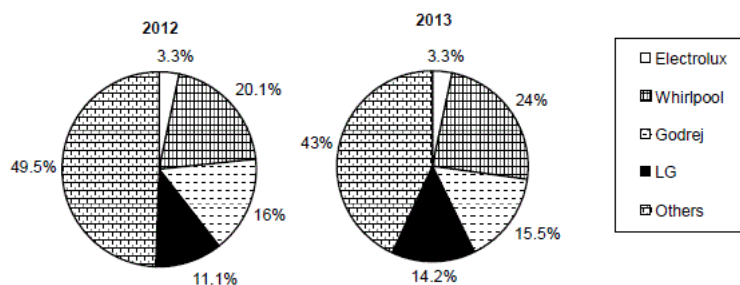
$$\text{Growth rate of frost-free} = \frac{330 - 225}{225} = \frac{7}{15}$$

$$\therefore \text{Ratio} = \frac{2}{35} \times \frac{15}{7} = 6 : 49$$

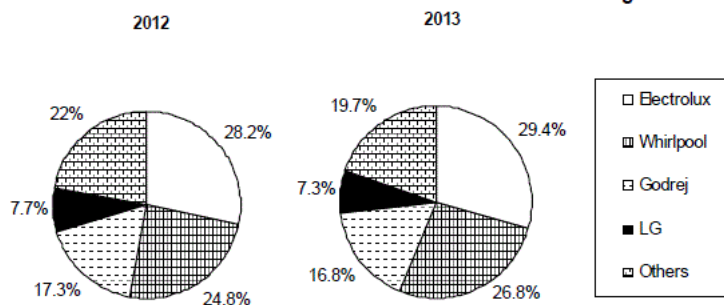
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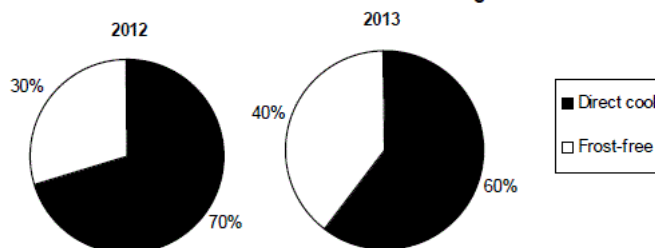
Volume wise distribution of market share of frost-free refrigerators



Volume wise distribution of market share of direct-cool refrigerators



Total market wise distribution of refrigerators



In 2012, the total market size of refrigerators was 7,50,000 units and in 2013, the market size grew by 10% compared to that in 2012.

Q.37
Which of the following company registered the highest percentage growth in its sales volume of direct-cool refrigerators in 2013 over the same in 2012?

1 ☐ Electrolux2 ☐ Whirlpool3 ☐ Godrej

4 ☐ LG**Solution:****Correct Answer : 2****Your Answer : 2**

The percentage growth in 2013 over 2012 in volume of direct cool refrigerators

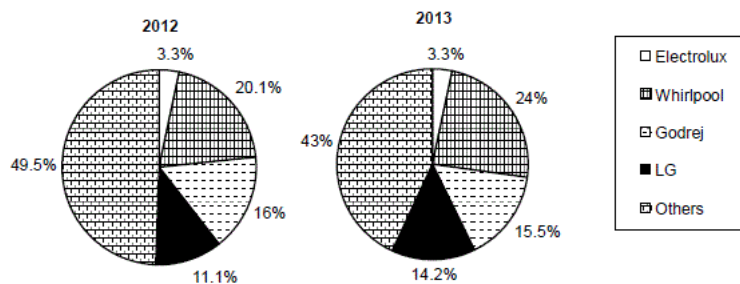
	2012	2013
Electrolux	$0.282 \times 525000 = 148050$	$0.294 \times 495000 = 145530$
Whirlpool	$0.248 \times 525000 = 130200$	$0.268 \times 495000 = 132660$
Godrej	90825	$0.168 \times 495000 = 83160$
LG	40425	$0.073 \times 495000 = 36135$

Only Whirlpool showed positive growth.

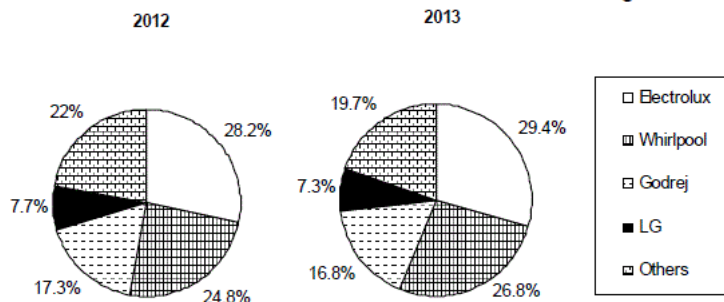
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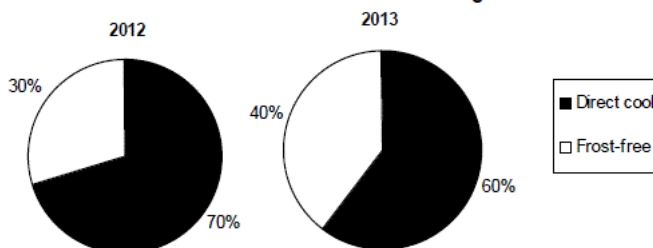
Volume wise distribution of market share of frost-free refrigerators



Volume wise distribution of market share of direct-cool refrigerators



Total market wise distribution of refrigerators



In 2012, the total market size of refrigerators was 7,50,000 units and in 2013, the market size grew by 10% compared to that in 2012.

Q.38

Which of the following company registered the lowest percentage growth in its sales volume of the frost-free refrigerators in 2013 over the same in 2012

1 ☐ LG2 ☐ Electrolux3 ☐ Godrej

4 ☐ Whirlpool**Solution:****Correct Answer : 3****Your Answer : 3** **Bookmark** **Answer key/Solution**

The percentage growth in 2013 over 2012 in volume of frost-free refrigerators

	2012	2013	Growth
Electrolux	$0.033 \times 225000 = 7425$	$0.033 \times 330000 = 10890$	46.60%
Whirlpool	$0.201 \times 225000 = 45225$	$0.24 \times 330000 = 79200$	75.12%
Godrej	$0.16 \times 225000 = 36000$	$0.155 \times 330000 = 51150$	42.08%
LG	$0.111 \times 225000 = 24975$	$0.142 \times 330000 = 46860$	87.67%

FeedBack

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

The table given below shows the closing prices (in Rs.) of the stocks of six Indian banks viz. Axis Bank, BOB, ICICI Bank, HDFC, PNB and SBI, on the days on which trading happened on a stock exchange from April 16, 2017 to May 15, 2017.

Bank Date	AXIS Bank	BOB	ICICI Bank	HDFC	PNB	SBI
16-Apr-17	1363	681	1079	663	740	2183
17-Apr-17	1377	676	1099	660	748	2245
18-Apr-17	1429	688	1123	674	767	2300
22-Apr-17	1441	699	1148	698	781	2327
23-Apr-17	1445	693	1161	689	779	2288
25-Apr-17	1503	709	1177	690	786	2335
26-Apr-17	1486	699	1145	689	772	2288
29-Apr-17	1475	699	1153	695	785	2274
30-Apr-17	1493	699	1164	682	768	2264
2-May-17	1516	712	1172	693	769	2299
3-May-17	1475	699	1130	681	744	2214
6-May-17	1460	700	1143	676	739	2226
7-May-17	1504	705	1164	688	748	2257
8-May-17	1490	692	1158	697	749	2255
9-May-17	1454	700	1153	690	783	2291
10-May-17	1470	703	1165	703	771	2294
11-May-17	1472	703	1168	703	773	2306
13-May-17	1452	690	1149	693	758	2278
14-May-17	1468	704	1147	689	766	2293
15-May-17	1509	728	1191	715	822	2383

Q.39

Which of the six banks recorded the maximum increase in its closing stock price on a day over any of the preceding days during the given period?

1 ☐ SBI2 ☐ HDFC3 ☐ ICICI4 ☐ AXIS Bank**Solution:****Correct Answer : 1****Your Answer : 1** **Bookmark** **Answer key/Solution**

From the given data, it can be observed that the maximum increase in the closing stock price on a day over any of the preceding days was for SBI and it was equal to $2383 - 2183 = 200$.

FeedBack

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

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13-May-17	1452	690	1149	693	758	2278
14-May-17	1468	704	1147	689	766	2293
15-May-17	1509	728	1191	715	822	2383

Q.40

On which date did the closing stock price of ICICI Bank record the maximum increase over that of the previous day during the given period?

1 ☐ 18th April

2 ☐ 15th May

3 ☐ 23rd April

4 ☐ 6th May



Solution:

Correct Answer : 2

Your Answer : 2

The closing stock price of ICICI bank recorded the maximum increase in its value over the previous day on 15th May, 2017 and it was equal to $1191 - 1147 = 44$.

FeedBack

Bookmark

Answer key/Solution

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

The table given below shows the closing prices (in Rs.) of the stocks of six Indian banks viz. Axis Bank, BOB, ICICI Bank, HDFC, PNB and SBI, on the days on which trading happened on a stock exchange from April 16, 2017 to May 15, 2017.

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13-May-17	1452	690	1149	693	758	2278
14-May-17	1468	704	1147	689	766	2293
15-May-17	1509	728	1191	715	822	2383

Q.41

Which of the six banks recorded the maximum percentage increase in its closing stock price over the given period?

1 ☐ PNB2 ☐ AXIS Bank3 ☐ ICICI4 ☐ BOB

Solution:

Correct Answer : 1

Your Answer : 1

PNB recorded the maximum percentage increase in its closing stock price during the given period and it was equal to

$$\left(\frac{822 - 740}{740} \right) \times 100 = 11.08\%.$$

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

The table given below shows the closing prices (in Rs.) of the stocks of six Indian banks viz. Axis Bank, BOB, ICICI Bank, HDFC, PNB and SBI, on the days on which trading happened on a stock exchange from April 16, 2017 to May 15, 2017.

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14-May-17	1468	704	1147	689	766	2293
15-May-17	1509	728	1191	715	822	2383

Q.42

For which bank was the average of the closing prices during the given period the least?

1 ☐ HDFC2 ☐ PNB3 ☐ ICICI4 ☐ None of these

Solution:

Correct Answer : 1

Your Answer : 1

HDFC has the minimum average of 688.40 over the given period.

Bookmark

Answer key/Solution

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

The following table gives the number of students who secured grade 'A' in each of the following subjects – Optimization (OT), Microelectronics (ME), Probability (PR), Telecommunication (TC) and Electromagnetic Waves (EMW) – in the 2nd year of an Engineering college having five sections A, B, C, D and in the year 2015.

Section	Subject				
	OT	ME	PR	TC	EMW
A	14	19	27	17	21
B	18	25	24	23	14
C	17	12	16	24	19
D	18	21	11	16	19
E	17	21	22	14	30

The following table gives the number of students in different sections in year 2015.

Section	Number of students
A	40
B	48
C	39
D	36
E	43

Q.43

In section D, the maximum number of students, who secured grade A in exactly 3 subjects is

Solution:**Correct Answer : 28**

As per the given data for section D, we have following number of students in each subject,

OT	ME	PR	TC	EMW
18	21	11	16	19

Now, we have to maximize the number of students, who secured grade A in exactly 3 subjects.

One way to do this is, we can select the minimum number from the list for the section D and take that much number of students from those three subjects which have maximum number of students.

So, let us start with taking **11** students from OT, ME and EMW who secured A grade in only these 3 subjects. Then, we are left with following number of students in each subject:

OT	ME	PR	TC	EMW
7	10	11	16	8

Similarly, take **7** students, who secured A grade in ME, PR and TC we are left with

OT	ME	PR	TC	EMW
7	3	4	9	8

Taking **3** from OT, EMW and TC, we are left with

OT	ME	PR	TC	EMW
4	3	4	6	5

After that, again **3** from OT, TC and EMW,

OT	ME	PR	TC	EMW
1	3	4	3	2

Take **1** from ME, PR and TC,

OT	ME	PR	TC	EMW
1	3	4	2	2

Take **1** from ME, PR and TC, similarly **1** from PR,

TC and EMW and again **1** from OT, ME and PR. Then we are left with only 1 student in EMW and 0 students in all other subject.

Hence, adding all the taken number of students, i.e., $11 + 7 + 3 + 3 + 1 + 1 + 1 + 1 = 28$, we get maximum 28 students who secured A grade in exactly 3 subjects. The similar can be tabulated as:

OT	ME	PR	TC	EMW	Taken
18	21	11	16	19	11
7	10	11	16	8	7
7	3	4	9	8	3
4	3	4	6	5	3
1	3	4	3	2	1
1	2	3	2	2	1
1	1	2	1	2	1
1	1	1	0	1	1
0	0	0	0	1	

FeedBack

Bookmark

Answer key/Solution

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

The following table gives the number of students who secured grade 'A' in each of the following subjects – Optimization (OT), Microelectronics (ME), Probability (PR), Telecommunication (TC) and Electromagnetic Waves (EMW) – in the 2nd year of an Engineering college having five sections A, B, C, D and in the year 2015.

Section	Subject				
	OT	ME	PR	TC	EMW
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C	17	12	16	24	19
D	18	21	11	16	19
E	17	21	22	14	30

The following table gives the number of students in different sections in year 2015.

Section	Number of students
A	40
B	48
C	39
D	36
E	43

Q.44

In section C, the maximum number of students, who secured grade A in exactly 1 subject is

Solution:

Correct Answer : 26

Lets maximize the number of students who got 'A' grade in all 5 subjects → So if we are preparing a list of students who got 'A' grade, there should be 88 names in the list (sum up the row of 'C') and in that there will be 39 unique names (at maximum).

So, maximizing the number of students who got 'A' grade in all 5 subjects, there can be at maximum 12

students whose names can be written 60 times in that list of 88. So, still there are 27 students left and 28 slots in the list are available. So, maximum number required cannot be 27. Now, we can less one, so lets say 1 students got 'A' grade in 2 subjects, so his name can appear 2 times in that list (of 88).

∴ 12 unique names → 60 times

1 unique name → 2 times

∴ 26 students are left and 26 slots can be filled with these names, writing each student name once.

∴ Required maximum number is 26.

FeedBack

Bookmark

Answer key/Solution

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

The following table gives the number of students who secured grade 'A' in each of the following subjects – Optimization (OT), Microelectronics (ME), Probability (PR), Telecommunication (TC) and Electromagnetic Waves (EMW) – in the 2nd year of an Engineering college having five sections A, B, C, D and in the year 2015.

Section	Subject				
	OT	ME	PR	TC	EMW
A	14	19	27	17	21
B	18	25	24	23	14
C	17	12	16	24	19
D	18	21	11	16	19
E	17	21	22	14	30

The following table gives the number of students in different sections in year 2015.

Section	Number of students
A	40
B	48
C	39
D	36
E	43

Q.45

In section E, the maximum number of students who secured grade A in at most 2 subjects is

Solution:

Correct Answer : 37

Bookmark

In section E, Total number of students = 43. We have to maximize number of students who secured 'A' grade in atmost 2 subjects. So, let us start by taking all 43 students to secure 'A' grade in exactly 2 subjects. Then total names in list must be $43 \times 2 = 86$ but we have 104 names in list. Hence, this case is not possible.

Next take 42 students, who secured 'A' grade in exactly 2 subjects. Then total will be $42 \times 2 = 84$ and 1 student left with 20 names left in list. Even if, that student secured 'A' in all 5 subjects, we left with 15 names.

Going on with the same procedure,

If we take 38 students who secured 'A' grade in exactly two subjects, then names left = $104 - (38 \times 2) = 28$ with 5 students left. If all 5 secured 'A' grade in all 5 subjects, then also we left with 3 names. Hence, not possible.

Now, take 37 students, who secured 'A' grade in exactly two subjects, then names left = $104 - (37 \times 2) = 30$, with 6 students left. Now if all these 6 students secured 'A' grade in all 5 subjects then this case is possible. Hence, required number of students is 37.

FeedBack

Answer key/Solution

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

The following table gives the number of students who secured grade 'A' in each of the following subjects – Optimization (OT), Microelectronics (ME), Probability (PR), Telecommunication (TC) and Electromagnetic Waves (EMW) – in the 2nd year of an Engineering college having five sections A, B, C, D and in the year 2015.

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The following table gives the number of students in different sections in year 2015.

Section	Number of students
A	40
B	48
C	39
D	36
E	43

Q.46

In section A and B put together, the maximum number of students to secure grade A in exactly 4 subjects is

Solution:

Correct Answer : 49

Since there are 40 students present in section A and total number of students scoring grade A in section A is $14 + 19 + 27 + 17 + 21 = 98$ and we have to maximise the number of students who scored grade A in exactly 4 subjects. So, we'll equally distribute

the number of students in each section i.e., $\frac{98}{4} = 24$ students.

But number of students scoring grade A in probability in section A is 27, which is greater than 24.

\Rightarrow 1 student will be scoring grade A only in three subjects.

So, $24 - 1 = 23$ students would have been scoring grade A in four subjects.

Similarly, in section B, $\frac{18 + 25 + 24 + 23 + 14}{4} = 26$

students will be scoring maximum marks in four subjects and as there is no subject in which number of students scoring grade A is more than 26 in section B. Thus 26 students are scoring grade A in section B. So, total number of students = $23 + 26 = 49$ students, which is maximum.

FeedBack

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Answer key/Solution

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

A student had 512 smaller and identical cubes of dimension $1 \times 1 \times 1$ and he assign a different number to each cube out of $x, x + 1, x + 2, \dots, x + 510$ and $x + 511$, where x is the smallest four-digits natural number in the form of $a^3 + b^3 = c^3 + d^3$, where a, b, c and d are distinct natural numbers. He arranged these 512 cubes to form a cube of dimension $8 \times 8 \times 8$. It is also known that:

- (i) In layer 1 (bottom-most layer), cubes with numbers x to $x + 7$ were arranged from left to right in the 1st row. In the 2nd row of the same layer, the cube with number $x + 8$ was behind the cube with number x and the cube with number $x + 9$ was behind the cube with number $x + 1$ and so on. Cubes with number x to $x + 63$ were arranged in the bottom most layer as per the scheme mentioned earlier.
- (ii) In layer 2, the cube with number $x + 64$ was placed on top of the cube with number x , the cube with number $x + 65$ was placed on top of the cube with number $x + 1$ and so on. The similar process was repeated to arrange the remaining cube to make the cube of dimension $8 \times 8 \times 8$.

Q.47

Find the sum of the numbers on the cubes on the surface diagonal of bottom-most face passing through the cube with numbered ' $x + 7$ '.

1 ☐ 13884

2 ☐ 14644

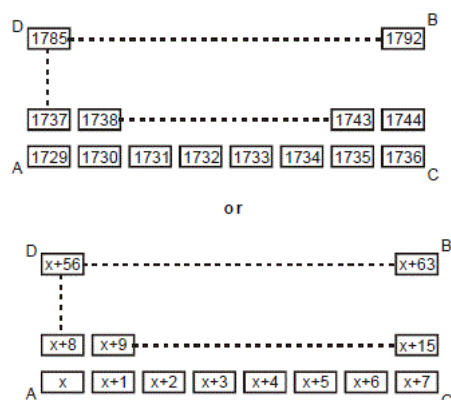
3 ☐ 14084

4 ☐ 15884

Solution:

Correct Answer : 3

The smallest 4-digit number that satisfies the given conditions is a special number called Ramanujan Number i.e. 1729
 $= a^3 + b^3 = c^3 + d^3$
 i.e., $12^3 + 1^3 = 10^3 + 9^3 = 1729$.
 So, here value of $x = 1729$.
 We need to visualize, layer 1 (bottom-most layer) would look like



Now, going vertically there will always be a difference of 64.
 For example, above 1729 cube, 1793 cube will be placed.

Here, $x + 7 = 1729 + 7 = 1736$.

From the figure, it is the surface diagonal from CD.
 Numbers on this diagonals from an A.P. with common difference of 7.

Hence, sum of these 8 terms
 $= 1736 + 1743 + 1750 + 1757 + 1764 + 1771 + 1778 + 1785$
 $= (2 \times 1736 + 7 \times 7) \times 4 = (3472 + 49) \times 4 = 14084$.

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[Answer key/Solution](#)

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

A student had 512 smaller and identical cubes of dimension $1 \times 1 \times 1$ and he assign a different number to each cube out of $x, x + 1, x + 2, \dots, x + 510$ and $x + 511$, where x is the smallest four-digits natural number in the form of $a^3 + b^3 = c^3 + d^3$, where a, b, c and d are distinct natural numbers. He arranged these 512 cubes to form a cube of dimension $8 \times 8 \times 8$. It is also known that:

- In layer 1 (bottom-most layer), cubes with numbers x to $x + 7$ were arranged from left to right in the 1st row. In the 2nd row of the same layer, the cube with number $x + 8$ was behind the cube with number x and the cube with number $x + 9$ was behind the cube with number $x + 1$ and so on. Cubes with number x to $x + 63$ were arranged in the bottom most layer as per the scheme mentioned earlier.
- In layer 2, the cube with number $x + 64$ was placed on top of the cube with number x , the cube with number $x + 65$ was placed on top of the cube with number $x + 1$ and so on. The similar process was repeated to arrange the remaining cube to make the cube of dimension $8 \times 8 \times 8$.

Q.48

Find the number on the cube placed at the other end of the body diagonal that has the cube numbered ' $x + 511$ ' on one end.

1 ☐ 1729

2 ☐ 1793

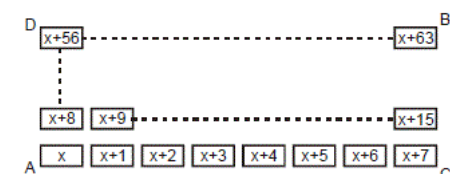
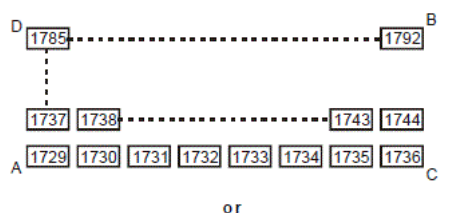
3 ☐ 2177

4 ☐ 1736

Solution:

Correct Answer : 1

The smallest 4-digit number that satisfies the given conditions is a special number called Ramanujan Number i.e. 1729
 $= a^3 + b^3 = c^3 + d^3$
 i.e., $12^3 + 1^3 = 10^3 + 9^3 = 1729$.
 So, here value of $x = 1729$.
 We need to visualize, layer 1 (bottom-most layer) would look like



Now, going vertically there will always be a difference of 64.
 For example, above 1729 cube, 1793 cube will be placed.

We can visualize that ' $x + 511$ ' will be the cube at the top-right back corner. So, other end of body diagonal will be front-left bottom corner i.e., cube numbered x or 1729.

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[Answer key/Solution](#)

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

A student had 512 smaller and identical cubes of dimension $1 \times 1 \times 1$ and he assign a different number to each cube out of $x, x + 1, x + 2, \dots, x + 510$ and $x + 511$, where x is the smallest four-digits natural number in the form of $a^3 + b^3 = c^3 + d^3$, where a, b, c and d are distinct natural numbers. He arranged these 512 cubes to form a cube of dimension $8 \times 8 \times 8$. It is also known that:

- In layer 1 (bottom-most layer), cubes with numbers x to $x + 7$ were arranged from left to right in the 1st row. In the 2nd row of the same layer, the cube with number $x + 8$ was behind the cube with number x and the cube with number $x + 9$ was behind the cube with number $x + 1$ and so on. Cubes with number x to $x + 63$ were arranged in the bottom most layer as per the scheme mentioned earlier.
- In layer 2, the cube with number $x + 64$ was placed on top of the cube with number x , the cube with number $x + 65$ was placed on top of the cube with number $x + 1$ and so on. The similar process was repeated to arrange the remaining cube to make the cube of dimension $8 \times 8 \times 8$.

Q.49

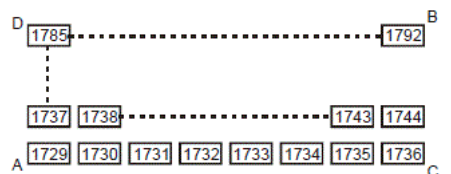
Find the number on the cube placed at the other end of the body diagonal that has the cube with number 'x + 56' on one end?

- 1 ☐ 2164
- 2 ☐ 2194
- 3 ☐ 1274
- 4 ☐ 2184

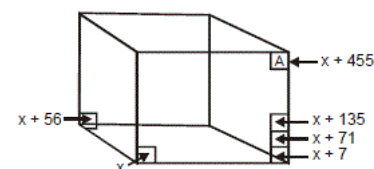
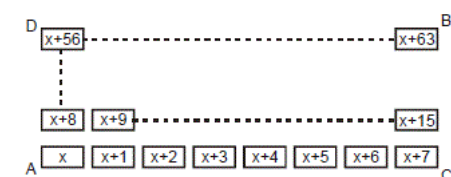
Solution:

Correct Answer : 4

The smallest 4-digit number that satisfies the given conditions is a special number called Ramanujan Number i.e. 1729
 $= a^3 + b^3 = c^3 + d^3$
 i.e., $12^3 + 1^3 = 10^3 + 9^3 = 1729$.
 So, here value of $x = 1729$.
 We need to visualize, layer 1 (bottom-most layer) would look like



or



gap of 64 each time.

Since, front-side lower right most cube is numbered as $x + 7$. So, front-side right most top cube, written as A in the diagram will be $(x + 7) + 64 \times 7 = x + 455$.

We know $x = 1729$ $\therefore 1729 + 455 = 2184$.

Feedback

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Answer key/Solution

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

A student had 512 smaller and identical cubes of dimension $1 \times 1 \times 1$ and he assign a different number to each cube out of $x, x + 1, x + 2, \dots, x + 510$ and $x + 511$, where x is the smallest four-digits natural number in the form of $a^3 + b^3 = c^3 + d^3$, where a, b, c and d are distinct natural numbers. He arranged these 512 cubes to form a cube of dimension $8 \times 8 \times 8$. It is also known that:

- (i) In layer 1 (bottom-most layer), cubes with numbers x to $x + 7$ were arranged from left to right in the 1st row. In the 2nd row of the same layer, the cube with number $x + 8$ was behind the cube with number x and the cube with number $x + 9$ was behind the cube with number $x + 1$ and so on. Cubes with number x to $x + 63$ were arranged in the bottom most layer as per the scheme mentioned earlier.
- (ii) In layer 2, the cube with number $x + 64$ was placed on top of the cube with number x , the cube with number $x + 65$ was placed on top of the cube with number $x + 1$ and so on. The similar process was repeated to arrange the remaining cube to make the cube of dimension $8 \times 8 \times 8$.

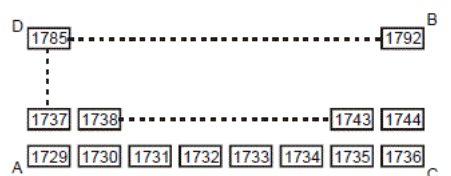
Q.50

Find the sum of all the numbers on the cubes on the body diagonal that has the cube numbered 'x' on one of the ends.

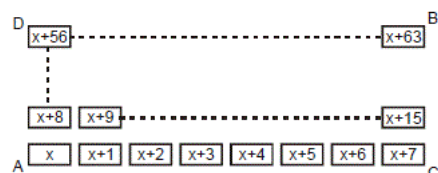
- 1 ☐ 15876
- 2 ☐ 15976
- 3 ☐ 14876

4 ☐ 16176**Solution:****Correct Answer : 1**

The smallest 4-digit number that satisfies the given conditions is a special number called Ramanujan Number i.e. 1729 = $a^3 + b^3 = c^3 + d^3$,
i.e., $12^3 + 1^3 = 10^3 + 9^3 = 1729$.
So, here value of $x = 1729$.
We need to visualize, layer I (bottom-most layer) would look like

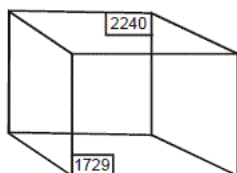


or



Layer I (bottom-most layer) will look like:

1785	1786	1787	1788	1789	1790	1791	1792
1777	1778	1779	1780	1781	1782	1783	1784
1769	1770	1771	1772	1773	1774	1775	1776
1761	1762	1763	1764	1765	1766	1767	1768
1753	1754	1755	1756	1757	1758	1759	1760
1745	1746	1747	1748	1749	1750	1751	1752
1737	1738	1739	1740	1741	1742	1743	1744
1729	1730	1731	1732	1733	1734	1735	1736



On the body diagonal, starting from left most cube in

bottom-most layer, 1st cube is 1729 and last cube is 2240.
2nd cube will be 1 layer above 1738, so its number will be $1738 + 64 = 1802$.
3rd cube will be 2 layers above 1747, so its number will be $1747 + (2 \times 64) = 1875$.
We can observe an A.P. with common different of 73.
So total 8 terms:

$$\text{Required sum} = \frac{8}{2} (1729 + 2240) = 15876.$$

Directions for questions 51 to 54: Answer the questions on the basis of the information given below. Six different birds – X_1 , X_2 , X_3 , X_4 , X_5 and X_6 – are put into three cages, with two birds in each. X_1 and X_2 are not kept in the same cage; the same holds true for pairs X_2 and X_3 , X_3 and X_4 , X_4 and X_5 , X_5 and X_6 .

Q.51

Which of the following can be put with X_1 in one of the cages so that the pairs in the remaining two cages can not be determined uniquely?

1 ☐ X_3 2 ☐ X_4 3 ☐ X_5 4 ☐ X_6 **Solution:**

Correct Answer : 2**Your Answer : 2**

Answer key/Solution

A total of 5 different arrangements are possible

$X_1 - X_3$ $X_2 - X_5$ $X_4 - X_6$
 $X_1 - X_4$ $X_2 - X_5$ $X_3 - X_6$
 $X_1 - X_4$ $X_2 - X_6$ $X_3 - X_5$
 $X_1 - X_5$ $X_2 - X_4$ $X_3 - X_6$
 $X_1 - X_6$ $X_2 - X_4$ $X_3 - X_5$

Among the various possible arrangement shown above,
there are two possible arrangements for (X_1, X_6) .

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Directions for questions 51 to 54: Answer the questions on the basis of the information given below. Six different birds – X_1 , X_2 , X_3 , X_4 , X_5 and X_6 – are put into three cages, with two birds in each. X_1 and X_2 are not kept in the same cage; the same holds true for pairs X_2 and X_3 , X_3 and X_4 , X_4 and X_5 , X_5 and X_6 .

Q.52

If a pair of birds kept in the same cage is known, what is the probability that the other two pairs of birds kept in the remaining two cages can be determined uniquely?

1 ☐ 2/52 ☐ 1/23 ☐ 5/114 ☐ 3/5**Solution:****Correct Answer : 2**

A total of 5 different arrangements are possible

$X_1 - X_3$ $X_2 - X_5$ $X_4 - X_6$
 $X_1 - X_4$ $X_2 - X_5$ $X_3 - X_6$
 $X_1 - X_4$ $X_2 - X_6$ $X_3 - X_5$
 $X_1 - X_5$ $X_2 - X_4$ $X_3 - X_6$
 $X_1 - X_6$ $X_2 - X_4$ $X_3 - X_5$

If the pairs (X_1, X_3) , (X_1, X_5) , (X_1, X_6) , (X_2, X_5) or (X_4, X_6) are given, then all other pairs can be determined, while if the pairs (X_1, X_4) , (X_2, X_4) , (X_2, X_6) , (X_3, X_5) or (X_3, X_6) are given, then all other pairs can't be determined.

Therefore required probability

$$= \frac{\text{Total number of favourable cases}}{\text{Total number of possible cases}} = \frac{5}{10}$$

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Answer key/Solution

Directions for questions 51 to 54: Answer the questions on the basis of the information given below. Six different birds – X_1 , X_2 , X_3 , X_4 , X_5 and X_6 – are put into three cages, with two birds in each. X_1 and X_2 are not kept in the same cage; the same holds true for pairs X_2 and X_3 , X_3 and X_4 , X_4 and X_5 , X_5 and X_6 .

Q.53

If a pair of birds kept in one of the cages is X_2 and X_4 , then which of the following pairs of birds are not kept in the same cage?

1 ☐ X_1, X_5 2 ☐ X_3, X_5 3 ☐ X_1, X_6 4 ☐ X_1, X_3 **Solution:****Correct Answer : 4****Your Answer : 4**

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Answer key/Solution

A total of 5 different arrangements are possible

$X_1 - X_3$ $X_2 - X_5$ $X_4 - X_6$
 $X_1 - X_4$ $X_2 - X_6$ $X_3 - X_5$
 $X_1 - X_4$ $X_2 - X_6$ $X_3 - X_5$
 $X_1 - X_5$ $X_2 - X_4$ $X_3 - X_6$
 $X_1 - X_6$ $X_2 - X_4$ $X_3 - X_5$

If X_2 and X_3 are kept in one cage then X_1 and X_3 cannot be kept together as in that case X_5 and X_6 will have to be paired, which violates the given condition.

FeedBack

Directions for questions 51 to 54: Answer the questions on the basis of the information given below. Six different birds – X_1 , X_2 , X_3 , X_4 , X_5 and X_6 – are put into three cages, with two birds in each. X_1 and X_2 are not kept in the same cage; the same holds true for pairs X_2 and X_3 , X_3 and X_4 , X_4 and X_5 , X_5 and X_6 .

Q.54

Which of the following can be put with X_2 in one of the cages so that the pairs in the remaining two cages can be determined uniquely?

1 ☐ X_4

2 ☐ X_5

3 ☐ X_6

4 ☐ None of these



Solution:

Correct Answer : 3

Your Answer : 3

A total of 5 different arrangements are possible

$X_1 - X_3$ $X_2 - X_5$ $X_4 - X_6$
 $X_1 - X_4$ $X_2 - X_6$ $X_3 - X_5$
 $X_1 - X_4$ $X_2 - X_6$ $X_3 - X_5$
 $X_1 - X_5$ $X_2 - X_4$ $X_3 - X_6$
 $X_1 - X_6$ $X_2 - X_4$ $X_3 - X_5$

If X_2 and X_5 are kept in one cage then we are left with only one possible arrangement as $X_1 - X_4$, $X_3 - X_6$.

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Answer key/Solution

Directions for questions 55 to 58: Answer the questions on the basis of the information given below.

A team comprising of two male and three female members is to be formed out of 10 persons namely A, B, C, D, E, F, G, H, I and J. It is known that B, D, E, H and J are females and the remaining persons are males. It is also known that:

- (i) B and D cannot be selected together.
- (ii) A and J cannot be selected together.
- (iii) If F is selected, then E must be selected and vice-versa.
- (iv) If G is selected, then D and I must be selected.
- (v) F and J cannot be selected together.
- (vi) If D is selected, then J must be selected.

Q.55

If G is selected, how many different compositions of team are possible?

1 ☐ 3

2 ☐ 2

3 ☐ 1

4 ☐ 4



Solution:

Correct Answer : 3

Your Answer : 3

If G is present in the team then D and I have to be present in the team. So that leaves us with the job of choosing two more females. Now, since D is present in the team therefore J has to be present in the team. So only possible team is G, I, D, J and H.

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Answer key/Solution

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Directions for questions 55 to 58: Answer the questions on the basis of the information given below.

A team comprising of two male and three female members is to be formed out of 10 persons namely A, B, C, D, E, F, G, H, I and J. It is known that B, D, E, H and J are females and the remaining persons are males. It is also known that:

- (i) B and D cannot be selected together.
- (ii) A and J cannot be selected together.
- (iii) If F is selected, then E must be selected and vice-versa.
- (iv) If G is selected, then D and I must be selected.
- (v) F and J cannot be selected together.
- (vi) If D is selected, then J must be selected.

Q.56

If B and J are selected, how many different compositions of team are possible?

1 ☐ 2

2 ☐ 1

3 ☐ 3

4 ☐ 4



Solution:

Correct Answer : 2

Your Answer : 2

If B and J are present in the team then one more female and two more males are required to form the team. Possible team is B, H, J, C and I.

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Directions for questions 55 to 58: Answer the questions on the basis of the information given below.

A team comprising of two male and three female members is to be formed out of 10 persons namely A, B, C, D, E, F, G, H, I and J. It is known that B, D, E, H and J are females and the remaining persons are males. It is also known that:

- (i) B and D cannot be selected together.
- (ii) A and J cannot be selected together.
- (iii) If F is selected, then E must be selected and vice-versa.
- (iv) If G is selected, then D and I must be selected.
- (v) F and J cannot be selected together.
- (vi) If D is selected, then J must be selected.

Q.57

If E and D are selected, then which of the following persons will definitely not be selected?

1 ☐ A

2 ☐ J

3 ☐ F

4 ☐ Data inconsistent



Solution:

Correct Answer : 4

Your Answer : 4

If E and D are present in the team then from statement (iii) F has to be present in the team. Also, from statement (vi), J must also be present in the same team because D is present but according to statement (v), F and J cannot be together in the same team. Hence, E and D can never be together in a team and thus it is not possible.

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Directions for questions 55 to 58: Answer the questions on the basis of the information given below.

A team comprising of two male and three female members is to be formed out of 10 persons namely A, B, C, D, E, F, G, H, I and J. It is known that B, D, E, H and J are females and the remaining persons are males. It is also known that:

- (i) B and D cannot be selected together.
- (ii) A and J cannot be selected together.
- (iii) If F is selected, then E must be selected and vice-versa.
- (iv) If G is selected, then D and I must be selected.
- (v) F and J cannot be selected together.
- (vi) If D is selected, then J must be selected.

Q.58

If D is selected, how many different compositions of team are possible?

- 1 ☐ 2
- 2 ☐ 3
- 3 ☐ 1
- 4 ☐ More than 3



Solution:

Correct Answer : 1

Your Answer : 1

Only two arrangements are possible DJHGI and DJHCI.

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Answer key/Solution

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

In an event, eight races were organized. In each race, four runners from four different states – Bihar, UP, MP and WB – participate and only one of them emerged as winner. For each of the eight races, at least four of the five persons – P, Q, R, S and T – predicted state which would win the race the winner of that race.

Following table gives the predictions made by person for the eight races.

Race \ Runner	1	2	3	4	5	6	7	8
Bihar	X	X	X	X	P, Q, R	X	P	X
UP	R	P, S, T	X	P, Q, S, T	X	X	X	Q, T
MP	P, T	Q, R	T	X	T	P, R, S	T	P, R, S
WB	Q, S	X	P, Q, R, S	R	X	Q, T	Q, R, S	X

For example, 'R' predicted UP to win Race 1, whereas P and T predicted MP to win Race 1 and no one predicted Bihar to win Race 1. It is also known that:

- (i) A person got Rs. 6000 for a correct prediction and lost Rs. 2000 for a wrong prediction.
- (ii) At the end of the eight races, Q earned the maximum amount of Rs. 32000. T neither gained nor lost any amount.
- (iii) Had 'R' made one more correct prediction and Q made one more wrong prediction, the amounts gained by them at the end of the eight races would have got interchanged.
- (iv) At the end of the eight races, it was observed that had any person predicted that a single state would be all the eight races he would not have gained or lost any amount.

Q.59

What was the amount gained by P at the end of the eight races?

- 1 ☐ 12000
- 2 ☐ 16000
- 3 ☐ 18000
- 4 ☐ 36000

Solution:

Correct Answer : 2

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Answer key/Solution

From condition (iv), we can conclude that every state won 2 races.

Let the number of correct predictions made by 'Q' be 'a' and the number of wrong predictions made by him be 'b'.

$$6000a - 2000b = 32000 \quad \dots (i)$$

{From condition (i)}

$$a + b = 8 \quad \dots (ii)$$

From (i) & (ii), we get

$$\therefore a = 6, b = 2.$$

From condition (3), we can conclude that 'R' made 5 correct predictions and 3 wrong predictions.

And since, T neither gained nor lost any amount, He made 2 correct predictions and 6 wrong predictions.

Out of the 8 predictions made by 'Q', 4 predicted that WB be win in four races. As we know that WB won exactly 2 races, two of the predictions made by 'Q' were incorrect, in the case in which he predicted WB as the winner. Hence, it can be concluded that Race 2 was won by MP, Race 4 was won by UP, Race 5 by Bihar and Race 8 by U.P..

Now it can be deduced that wrong predictions made by 'R' were in Races: Race 1, Race 4, Race 8. Thus, 'R' made correct predictions in Race 2, Race 3, Race 5, Race 6 and Race 7. Thus, Race 3 and Race 7 were won by WB, Race 5 was won by Bihar and Race 2 by MP.

So, we can make the following table:

Race	Winner	Correct Predictor	Wrong Predictor
1	Bihar	–	P, Q, R, S, T
2	MP	Q, R	P, S, T
3	WB	P, Q, R, S	T
4	UP	P, Q, S, T	R
5	Bihar	P, Q, R	T
6	MP	P, R, S	Q, T
7	WB	Q, R, S	P, T
8	UP	Q, T	P, R, S

The amount gained by P = $6000 \times 4 - 2000 \times 4$
= Rs. 16000.

Feedback

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

In an event, eight races were organized. In each race, four runners from four different states – Bihar, UP, MP and WB – participate and only one of them emerged as winner. For each of the eight races, at least four of the five persons – P, Q, R, S and T – predicted state which would win the race the winner of that race.

Following table gives the predictions made by person for the eight races.

Race \ Runner	1	2	3	4	5	6	7	8
Bihar	X	X	X	X	P, Q, R	X	P	X
UP	R	P, S, T	X	P, Q, S, T	X	X	X	Q, T
MP	P, T	Q, R	T	X	T	P, R, S	T	P, R, S
WB	Q, S	X	P, Q, R, S	R	X	Q, T	Q, R, S	X

For example, 'R' predicted UP to win Race 1, whereas P and T predicted MP to win Race 1 and no one predicted Bihar to win Race 1. It is also known that:

(i) A person got Rs. 6000 for a correct prediction and lost Rs. 2000 for a wrong prediction.

(ii) At the end of the eight races, Q earned the maximum amount of Rs. 32000. T neither gained nor lost any amount.

(iii) Had 'R' made one more correct prediction and Q made one more wrong prediction, the amounts gained by them at the end of the eight races would have got interchanged.

(iv) At the end of the eight races, it was observed that had any person predicted that a single state would be all the eight races he would not have gained or lost any amount.

Q.60

How many correct predictions did S make?

1 ☐ 2

2 ☐ 3

3 ☐ 4

4 ☐ 5

Solution:

Correct Answer : 3

Bookmark

From condition (iv), we can conclude that every state won 2 races.

Let the number of correct predictions made by 'Q' be 'a' and the number of wrong predictions made by him be 'b'.

$$6000a - 2000b = 32000 \quad \dots (i)$$

{From condition (i)}

$$a + b = 8 \quad \dots (ii)$$

From (i) & (ii), we get

$$\therefore a = 6, b = 2.$$

From condition (3), we can conclude that 'R' made 5 correct predictions and 3 wrong predictions.

And since, T neither gained nor lost any amount, He made 2 correct predictions and 6 wrong predictions.

Out of the 8 predictions made by 'Q', 4 predicted that WB be win in four races. As we know that WB won exactly 2 races, two of the predictions made by 'Q' were incorrect, in the case in which he predicted WB as the winner. Hence, it can be concluded that Race 2 was won by MP, Race 4 was won by UP, Race 5 by Bihar and Race 8 by U.P.

Now it can be deduced that wrong predictions made by 'R' were in Races: Race 1, Race 4, Race 8. Thus, 'R' made correct predictions in Race 2, Race 3, Race 5, Race 6 and Race 7. Thus, Race 3 and Race 7 were won by WB, Race 5 was won by Bihar and Race 2 by MP.

So, we can make the following table:

Race	Winner	Correct Predictor	Wrong Predictor
1	Bihar	—	P, Q, R, S, T
2	MP	Q, R	P, S, T
3	WB	P, Q, R, S	T
4	UP	P, Q, S, T	R
5	Bihar	P, Q, R	T
6	MP	P, R, S	Q, T
7	WB	Q, R, S	P, T
8	UP	Q, T	P, R, S

S made 4 correct predictions.

FeedBack

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

In an event, eight races were organized. In each race, four runners from four different states – Bihar, UP, MP and WB – participate and only one of them emerged as winner. For each of the eight races, at least four of the five persons – P, Q, R, S and T – predicted state which would win the race the winner of that race.

Following table gives the predictions made by person for the eight races.

Race \ Runner	1	2	3	4	5	6	7	8
Bihar	X	X	X	X	P, Q, R	X	P	X
UP	R	P, S, T	X	P, Q, S, T	X	X	X	Q, T
MP	P, T	Q, R	T	X	T	P, R, S	T	P, R, S
WB	Q, S	X	P, Q, R, S	R	X	Q, T	Q, R, S	X

For example, 'R' predicted UP to win Race 1, whereas P and T predicted MP to win Race 1 and no one predicted Bihar to win Race 1. It is also known that:

(i) A person got Rs. 6000 for a correct prediction and lost Rs. 2000 for a wrong prediction.

(ii) At the end of the eight races, Q earned the maximum amount of Rs. 32000. T neither gained nor lost any amount.

(iii) Had 'R' made one more correct prediction and Q made one more wrong prediction, the amounts gained by them at the end of the eight races would have got interchanged.

(iv) At the end of the eight races, it was observed that had any person predicted that a single state would be all the eight races he would not have gained or lost any amount.

Q.61

In how many races was the winner not predicted correctly by any of the persons?

1 ☐ 0

2 ☐ 2

3 ☐ 1

4 ☐ Cannot be determined

Solution:

Correct Answer : 3

Answer key/Solution

Bookmark

Answer key/Solution

From condition (iv), we can conclude that every state won 2 races.

Let the number of correct predictions made by 'Q' be 'a' and the number of wrong predictions made by him be 'b'.

$$6000a - 2000b = 32000 \quad \dots (i)$$

... (i) {From condition (i)}

$$a + b = 8 \quad \dots (ii)$$

... (ii)

From (i) & (ii), we get

$$\therefore a = 6, b = 2.$$

From condition (3), we can conclude that 'R' made 5 correct predictions and 3 wrong predictions.

And since, T neither gained nor lost any amount, He made 2 correct predictions and 6 wrong predictions.

Out of the 8 predictions made by 'Q', 4 predicted that WB be win in four races. As we know that WB won exactly 2 races, two of the predictions made by 'Q' were incorrect, in the case in which he predicted WB as the winner. Hence, it can be concluded that Race 2 was won by MP, Race 4 was won by UP, Race 5 by Bihar and Race 8 by U.P.

Now it can be deduced that wrong predictions made by 'R' were in Races: Race 1, Race 4, Race 8. Thus, 'R' made correct predictions in Race 2, Race 3, Race 5, Race 6 and Race 7. Thus, Race 3 and Race 7 were won by WB, Race 5 was won by Bihar and Race 2 by MP.

So, we can make the following table:

Race	Winner	Correct Predictor	Wrong Predictor
1	Bihar	—	P, Q, R, S, T
2	MP	Q, R	P, S, T
3	WB	P, Q, R, S	T
4	UP	P, Q, S, T	R
5	Bihar	P, Q, R	T
6	MP	P, R, S	Q, T
7	WB	Q, R, S	P, T
8	UP	Q, T	P, R, S

Only Race 1.

FeedBack

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

In an event, eight races were organized. In each race, four runners from four different states – Bihar, UP, MP and WB – participate and only one of them emerged as winner. For each of the eight races, at least four of the five persons – P, Q, R, S and T – predicted state which would win the race the winner of that race.

Following table gives the predictions made by person for the eight races.

Race \ Runner	1	2	3	4	5	6	7	8
Bihar	X	X	X	X	P, Q, R	X	P	X
UP	R	P, S, T	X	P, Q, S, T	X	X	X	Q, T
MP	P, T	Q, R	T	X	T	P, R, S	T	P, R, S
WB	Q, S	X	P, Q, R, S	R	X	Q, T	Q, R, S	X

For example, 'R' predicted UP to win Race 1, whereas P and T predicted MP to win Race 1 and no one predicted Bihar to win Race 1. It is also known that:

(i) A person got Rs. 6000 for a correct prediction and lost Rs. 2000 for a wrong prediction.

(ii) At the end of the eight races, Q earned the maximum amount of Rs. 32000. T neither gained nor lost any amount.

(iii) Had 'R' made one more correct prediction and Q made one more wrong prediction, the amounts gained by them at the end of the eight races would have got interchanged.

(iv) At the end of the eight races, it was observed that had any person predicted that a single state would be all the eight races he would not have gained or lost any amount.

Q.62

How many wrong predictions did Q make?

1 ☐ 1

2 ☐ 2

3 ☐ 3

4 ☐ 4



Solution:

Bookmark

Correct Answer : 2**Your Answer : 2**

Answer key/Solution

From condition (iv), we can conclude that every state won 2 races.

Let the number of correct predictions made by 'Q' be 'a' and the number of wrong predictions made by him be 'b'.

$$6000a - 2000b = 32000$$

... (i)

{From condition (i)}

$$a + b = 8$$

... (ii)

From (i) & (ii), we get

$$\therefore a = 6, b = 2.$$

From condition (3), we can conclude that 'R' made 5 correct predictions and 3 wrong predictions.

And since, T neither gained nor lost any amount, He made 2 correct predictions and 6 wrong predictions.

Out of the 8 predictions made by 'Q', 4 predicted that WB be win in four races. As we know that WB won exactly 2 races, two of the predictions made by 'Q' were incorrect, in the case in which he predicted WB as the winner. Hence, it can be concluded that Race 2 was won by MP, Race 4 was won by UP, Race 5 by Bihar and Race 8 by U.P..

Now it can be deduced that wrong predictions made by 'R' were in Races: Race 1, Race 4, Race 8. Thus, 'R' made correct predictions in Race 2, Race 3, Race 5, Race 6 and Race 7, Thus, Race 3 and Race 7 were won by WB, Race 5 was won by Bihar and Race 2 by MP.

So, we can make the following table:

Race	Winner	Correct Predictor	Wrong Predictor
1	Bihar	–	P, Q, R, S, T
2	MP	Q, R	P, S, T
3	WB	P, Q, R, S	T
4	UP	P, Q, S, T	R
5	Bihar	P, Q, R	T
6	MP	P, R, S	Q, T
7	WB	Q, R, S	P, T
8	UP	Q, T	P, R, S

The number of wrong predictions made by Q was 2.

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

In a garden, trees were planted in five rows – R1, R2, R3, R4 and R5. The number of trees in each row was a distinct natural number. Ravi decided to assign natural number to each tree. For the aforementioned purpose, Ravi chose a row randomly and started numbering trees from north end to south end of the row using consecutive numbers, not necessarily starting with 1. After numbering the south-most tree of the row, he chose another row randomly again and started numbering trees from north end to south end of the row using consecutive number such that the number used to number the left most tree of the new was the succeeding number to the number that he used to number the south-most tree of the preceding row. Following the same pattern, he numbered all the trees of the garden. After numbering all trees of the garden, he observed the following:

- (i) The sum of the numbers assigned to south-most trees of all the rows was 144.
- (ii) The sum of the numbers assigned to north-most trees of all the rows was 134.
- (iii) The sum of numbers assigned to trees in R2 was 96.
- (iv) The number assigned to south-most tree of R1 was 26.
- (v) The numbers of trees in no two adjacent rows were consecutive numbers.

Q.63

What was sum of all the numbers assigned to trees in R5?

Solution:**Correct Answer : 41**

Bookmark

Answer key/Solution

The Sum of the numbers on the trees of the south-end of rows = 144.

The Sum of the numbers on the trees of the north-end of rows = 134

Since $144 - 134 = 10$, the number of trees in the garden is $15(10 + 5)$. Since no 2 rows have the same number of trees, the number of trees in the 5 rows will be 1, 2, 3, 4 and 5, not necessarily in the same order.

Since sum of number on trees in R2 = 96, the number of trees in the row has to be three i.e., $31 + 32 + 33 = 96$. The number of tree in row would not be 1 since sum of number on trees of the south-end of rows = 144.

Now it can be concluded that R1 has either 1 tree or 5 trees. If R1 has 1 tree, we would not get the sum of number on south most trees of five rows as 144. Hence, the number of trees in R1 is 5.

Now, it can be deduced that the number of trees in R3, R4 and R5 is 1, 4 and 2 respectively.

The number of trees in R1 from north to south are 22, 23, 24, 25 and 26.

Since 26 and 31 are the numbers used to number the trees of the garden, the number on the north most tree of a row has to be 27.

Let the number on the north most trees of the two remaining rows be 'a' and 'b'.

$\therefore 22 + 31 + 27 + a + b = 134$.

The value of a & b had to be 20 & 34, in any order to satisfy all the given conditions.

Row	North	→	South
1.	→	22 23 24 25 26	
2.	→	31 32 33	
3.	→	<u>34</u>	
4.	→	27 28 29 30	
5.	→	<u>20</u> <u>21</u>	

The sum of all the numbers assigned to trees in R5 was 41.

FeedBack

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

In a garden, trees were planted in five rows – R1, R2, R3, R4 and R5. The number of trees in each row was a distinct natural number. Ravi decided to assign natural number to each tree. For the aforementioned purpose, Ravi chose a row randomly and started numbering trees from north end to south end of the row using consecutive numbers, not necessarily starting with 1. After numbering the south-most tree of the row, he chose another row randomly again and started numbering trees from north end to south end of the row using consecutive number such that the number used to number the left most tree of the new was the succeeding number to the number that he used to number the south-most tree of the preceding row. Following the same pattern, he numbered all the trees of the garden. After numbering all trees of the garden, he observed the following:

- (i) The sum of the numbers assigned to south-most trees of all the rows was 144.
- (ii) The sum of the numbers assigned to north-most trees of all the rows was 134.
- (iii) The sum of numbers assigned to trees in R2 was 96.
- (iv) The number assigned to south-most tree of R1 was 26.
- (v) The numbers of trees in no two adjacent rows were consecutive numbers.

Q.64

What was the number of trees in R3?

Solution:

Correct Answer : 1

Bookmark

Answer key/Solution

The Sum of the numbers on the trees of the south-end of rows = 144.

The Sum of the numbers on the trees of the north-end of rows = 134

Since $144 - 134 = 10$, the number of trees in the garden is $15(10 + 5)$. Since no 2 rows have the same number of trees, the number of trees in the 5 rows will be 1, 2, 3, 4 and 5, not necessarily in the same order.

Since sum of number on trees in R2 = 96, the number of trees in the row has to be three i.e., $31 + 32 + 33 = 96$. The number of tree in row would not be 1 since sum of number on trees of the south-end of rows = 144.

Now it can be concluded that R1 has either 1 tree or 5 trees. If R1 has 1 tree, we would not get the sum of number on south most trees of five rows as 144. Hence, the number of trees in R1 is 5.

Now, it can be deduced that the number of trees in R3, R4 and R5 is 1, 4 and 2 respectively.

The number of trees in R1 from north to south are 22, 23, 24, 25 and 26.

Since 26 and 31 are the numbers used to number the trees of the garden, the number on the north most tree of a row has to be 27.

Let the number on the north most trees of the two remaining rows be 'a' and 'b'.

$\therefore 22 + 31 + 27 + a + b = 134$.

The value of a & b had to be 20 & 34, in any order to satisfy all the given conditions.

Row	North	→	South
1.	→	22 23 24 25 26	
2.	→	31 32 33	
3.	→	<u>34</u>	
4.	→	27 28 29 30	
5.	→	<u>20</u> <u>21</u>	

The number of trees in R3 was 1.

FeedBack

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

In a garden, trees were planted in five rows – R1, R2, R3, R4 and R5. The number of trees in each row was a distinct natural number. Ravi decided to assign natural number to each tree. For the aforementioned purpose, Ravi chose a row randomly and started numbering trees from north end to south end of the row using consecutive numbers, not necessarily starting with 1. After numbering the south-most tree of the row, he chose another row randomly again and started numbering trees from north end to south end of the row using consecutive number such that the number used to number the left most tree of the new was the succeeding number to the number that he used to number the south-most tree of the preceding row. Following the same pattern, he numbered all the trees of the garden. After numbering all trees of the garden, he observed the following:

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- (ii) The sum of the numbers assigned to north-most trees of all the rows was 134.
- (iii) The sum of numbers assigned to trees in R2 was 96.
- (iv) The number assigned to south-most tree of R1 was 26.
- (v) The numbers of trees in no two adjacent rows were consecutive numbers.

Q.65

What was the highest number that was assigned to any tree?

Solution:

Correct Answer : 34

Bookmark

Answer key/Solution

The Sum of the numbers on the trees of the south-end of rows = 144.

The Sum of the numbers on the trees of the north-end of rows = 134

Since $144 - 134 = 10$, the number of trees in the garden is $15(10 + 5)$. Since no 2 rows have the same number of trees, the number of trees in the 5 rows will be 1, 2, 3, 4 and 5, not necessarily in the same order.

Since sum of number on trees in R2 = 96, the number of trees in the row has to be three i.e., $31 + 32 + 33 = 96$. The number of tree in row would not be 1 since sum of number on trees of the south-end of rows = 144.

Now it can be concluded that R1 has either 1 tree or 5 trees. If R1 has 1 tree, we would not get the sum of number on south most trees of five rows as 144. Hence, the number of trees in R1 is 5.

Now, it can be deduced that the number of trees in R3, R4 and R5 is 1, 4 and 2 respectively.

The number of trees in R1 from north to south are 22, 23, 24, 25 and 26.

Since 26 and 31 are the numbers used to number the trees of the garden, the number on the north most tree of a row has to be 27.

Let the number on the north most trees of the two remaining rows be 'a' and 'b'.

$\therefore 22 + 31 + 27 + a + b = 134$.

The value of a & b had to be 20 & 34, in any order to satisfy all the given conditions.

Row	North	→	South
1.	→	22 23 24 25 26	
2.	→	31 32 33	
3.	→	34	
4.	→	27 28 29 30	
5.	→	20 21	

The highest number that was assigned to any tree was 34.

FeedBack

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

In a garden, trees were planted in five rows – R1, R2, R3, R4 and R5. The number of trees in each row was a distinct natural number. Ravi decided to assign natural number to each tree. For the aforementioned purpose, Ravi chose a row randomly and started numbering trees from north end to south end of the row using consecutive numbers, not necessarily starting with 1. After numbering the south-most tree of the row, he chose another row randomly again and started numbering trees from north end to south end of the row using consecutive number such that the number used to number the left most tree of the new was the succeeding number to the number that he used to number the south-most tree of the preceding row. Following the same pattern, he numbered all the trees of the garden. After numbering all trees of the garden, he observed the following:

- (i) The sum of the numbers assigned to south-most trees of all the rows was 144.
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- (iii) The sum of numbers assigned to trees in R2 was 96.
- (iv) The number assigned to south-most tree of R1 was 26.
- (v) The numbers of trees in no two adjacent rows were consecutive numbers.

Q.66

What was the average of all the numbers assigned to trees in the garden?

Solution:

Correct Answer : 27

Bookmark

Answer key/Solution

The Sum of the numbers on the trees of the south-end of rows = 144.

The Sum of the numbers on the trees of the north-end of rows = 134

Since $144 - 134 = 10$, the number of trees in the garden is $15(10 + 5)$. Since no 2 rows have the same number of trees, the number of trees in the 5 rows will be 1, 2, 3, 4 and 5, not necessarily in the same order.

Since sum of number on trees in R2 = 96, the number of trees in the row has to be three i.e., $31 + 32 + 33 = 96$. The number of tree in row would not be 1 since sum of number on trees of the south-end of rows = 144.

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The number of trees in R1 from north to south are 22, 23, 24, 25 and 26.

Since 26 and 31 are the numbers used to number the trees of the garden, the number on the north most tree of a row has to be 27.

Let the number on the north most trees of the two remaining rows be 'a' and 'b'.

$\therefore 22 + 31 + 27 + a + b = 134$.

The value of a & b had to be 20 & 34, in any order to satisfy all the given conditions.

Row	North	→	South
1.	→ 22	23	24 25 26
2.	→ 31	32	33
3.	→ 34		
4.	→ 27	28	29 30
5.	→ 20	21	

The average of all the numbers assigned to trees in

the garden = $\frac{20 + 34}{2} = 27$.

FeedBack

Sec 3

Q.67

A swimming pool is fitted with three inlet pipes–P1, P2 and P3– through which water flows with uniform rates. P1 and P2 operating simultaneously can fill the pool in half the time in which P3 alone can fill it. P2 alone can fill the pool in 12 hours more than the time in which P1 alone can fill it and 8 hours more than the time in which P3 alone can fill it. Which of the following is the time (in hours) taken by P1, P2 and P3 individually to fill the pool?

1 ☐ 12, 16, 18

2 ☐ 16, 28, 20

3 ☐ 12, 24, 16

4 ☐ 8, 20, 12

Solution:

Correct Answer : 3

Let the time taken by P1 to fill the pool be x hours.
 \therefore P2 and P3 will fill it in x + 12 and x + 4 hours respectively.

$$\therefore \frac{1}{x} + \frac{1}{x+12} = \frac{2}{x+4}$$

Solving the above equation, we get x = 12.

FeedBack

Bookmark

Answer key/Solution

Q.68

If x is non negative integer, then find the maximum value of $\frac{x+2}{2x^2+8x+8}$.

1 ☐ 1/2

2 ☐ 1/3

3 ☐ 1/4

4 ☐ 1/12**Solution:****Correct Answer : 3**

$$\frac{x+2}{2x^2+8x+8} = \frac{x+2}{2(x+2)^2}$$

$$= \frac{1}{2(x+2)}$$

As this is a fraction its value keeps decreasing as x increases. So maximum value exists at x = 0

Hence, the required value = $\frac{1}{4}$.

Q.69

A milkman has L litres of mixture of milk and water in which the ratio of milk to water is p : q . After selling one-third of the mixture, he added L/2 litres of milk and L/3 litres of water to the remaining mixture. The ratio of milk to water in the resulting mixture is q : p. Find the value pf q : p.

1 ☐ 2 : √52 ☐ 1 : 23 ☐ 7 : 64 ☐ 9 : 7**Solution:****Correct Answer : 3**

Let the initial mixture have 3M milk and 3W water.
1/3rd is sold so remaining milk & water are 2M & 2W.

Milk added is $\frac{1}{2}(3M+3W)$ & water added is

$$\frac{1}{3}(3M+3W).$$

$$\text{Now, } \frac{2M + \frac{1}{2}(3M+3W)}{2W + \frac{1}{3}(3M+3W)} = \frac{3W}{3M}$$

$$\Rightarrow \frac{(7M+3W)}{2(3W+M)} = \frac{W}{M}$$

$$\Rightarrow 7M^2 - 6W^2 + MW = 0$$

$$\Rightarrow 7M^2 + 7MW - 6MW - 6W^2 = 0$$

$$\Rightarrow 7M(M+W) - 6W(M+W) = 0$$

$$\Rightarrow 7M - 6W = 0 \quad [\because M+W \neq 0]$$

$$\Rightarrow \frac{W}{M} = \frac{7}{6}$$

Hence, the ratio of milk to water in the final solution
= 7 : 6.

Q.70

Ajay has a certain number of Re. 1, Rs. 2 and Rs. 10 notes with him. The ratio of the number of Re. 1 notes and that of Rs. 2 notes is 4 : 3. If the number of Rs. 10 notes is more than the total number of Re. 1 and Rs. 2 notes put together, then total amount with Ajay cannot be less than

1 ☐ Rs. 802 ☐ Rs. 903 ☐ Rs. 1754 ☐ Rs. 171**Solution:****Correct Answer : 2**

Let the number of of Re1 & Rs. 2 notes be $4x$ and $3x$ respectively. Then the value (in Rs.) is $4x + 6x = 10x$
 Ten rupee notes have to be more than $7x$. Thus the minimum value of Rs. 10 note is $8 \times 10 = 80$.
 \therefore The amount with Ajay cannot be less than $80 + 10 = 90$.

FeedBack

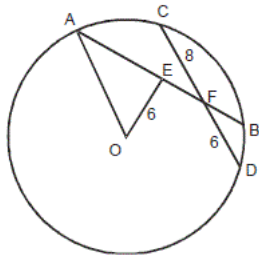
Q.71

AB and CD are two chord of a circle and they intersect at point F. The radius of the circle is 10 cm and the length of the perpendicular drawn from centre to AB is 6 cm. If DF = 6 cm and FC = 8 cm and $AF > BF$, then what is the length (in cm) of AF?

Solution:

Correct Answer : 12

Let OE be the perpendicular to AB
 Join OA



In $\triangle OEA$, $AE^2 = OA^2 - OE^2$
 $= 10^2 - 6^2 = 8^2$

$\therefore AE = 8$

$\Rightarrow AB = 16$

As, AB & CD intersect at F, means $DF \times FC = AF \times FB$

Let $AF = x$ and $FB = (16 - x)$.

$\therefore 6 \times 8 = x(16 - x)$

$\Rightarrow x^2 - 16x + 48 = 0$

$\Rightarrow x = 12$ or 4

$\therefore AF = 12$.

FeedBack

Bookmark

Answer key/Solution

Q.72

If 195 digits were used to number the pages of a book starting from page 1, then the number of pages in the book is

Solution:

Correct Answer : 101

To number single digit page numbers, 9 digits are used.

The next 180 digits are used for numbering 2 digit numbers starting from 10 to 99. Remaining 6 digits are used for numbering 100 and 101. Last page is 101.

Thus the number of pages in the book is 101.

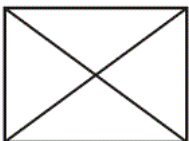
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Answer key/Solution

Q.73

A rectangular flag is divided into four triangles labeled Left, Right, Top, and Bottom as shown. Each triangle is to be colored using one of red, white, blue, green, and purple so that no two triangles that share a side are of the same color. In how many different ways the flag can be coloured?



1 ☐ 180

2 ☐ 200

3 ☐ 220

4 ☐ 260

Solution:**Correct Answer : 4**

Case 1. Colours used = 2
 No of ways of selection of 2 colours = ${}^6C_2 = 10$
 No of ways of using 2 colours = 2
 Totally 20 ways
 Case 2. Colours used = 3
 No of ways of selection of 3 colours = ${}^6C_3 = 10$
 No of ways of using 3 colours = $3 \times 4 = 12$
 Totally 120 ways
 Case 3. Colours used = 4
 No of ways of selection of 4 colours = ${}^6C_4 = 5$
 No of ways of using 4 colours = $2 \times 3 \times 4 = 24$
 Totally 120 ways.
 \therefore Total number of ways = $20 + 120 + 120 = 260$.

Bookmark

Answer key/Solution

Q.74

The sequence $a_1, a_2, a_3, \dots, a_{98}$ satisfies $a_{(n+1)} = a_n + 1$ for $n = 1, 2, 3, \dots, 97$ and has a sum of 137.
 Find $a_2 + a_4 + \dots + a_{98}$

1 ☐ 642 ☐ 933 ☐ 854 ☐ 73**Solution:****Correct Answer : 2**

From the relation between $a_{(n+1)} = a_n + 1$, it can be deduced that the sequence is in AP

$$a_1 + a_2 + a_3 + \dots + a_{98} = 137$$

$$\Rightarrow \frac{98}{2}(a_1 + a_{98}) = 137$$

$$\Rightarrow 49[a_1 + a_{98}] = 137$$

$$a_2 + a_4 + \dots + a_{98} = \frac{49}{2}[a_2 + a_{98}]$$

$$= \frac{49}{2}[a_1 + 1 + a_{98}]$$

$$= \frac{49}{2}[a_1 + a_{98}] + \frac{49}{2}$$

$$= \frac{137}{2} + \frac{49}{2} = 93$$

Bookmark

Answer key/Solution

Q.75

Let $K = 105^{19}$, $L = 100^{20}$ and $M = 110^{18}$. Which of the following is true?

1 ☐ $L > M > K$ 2 ☐ $L > K > M$ 3 ☐ $M > L > K$ 4 ☐ $K > L > M$ **Solution:****Correct Answer : 2**

Bookmark

Answer key/Solution

$K = 105^{19} = 5^{19} \times 21^{19}$
 $L = 100^{20} = 5^{20} \times 20^{20}$
 $M = 110^{18} = 5^{18} \times 22^{18}$
 $5^{20} > 5^{19} > 5^{18}$
 Now, we know that
 $n^n > (n+1)^{(n-1)}$ if $n \in \mathbb{N}$ and $n \geq 3$
 $n^{(n+2)} > (n+1)^{(n+1)}$ if $n \in \mathbb{N}$ and $n > 3$
 $n^{(n+1)} > (n+1)^n$ if $n \in \mathbb{N}$ and $n \geq 3$
 $\therefore 20^{20} > 21^{19} > 22^{18}$
 $\Rightarrow L > K > M$

FeedBack

Q.76

A trader marked a watch 40% above the cost price and then gave a discount of 10%. He made a net profit of Rs. 468 after paying a tax of 10% on the gross profit. What is the cost price of the watch?

1 ☐ Rs. 1,200

2 ☐ Rs. 1,800

3 ☐ Rs. 2,000

4 ☐ Rs. 2,340

Solution:

Correct Answer : 3

Let CP of the watch be Rs. x .
 \therefore Marked price of the watch = Rs. $1.4x$
 Selling price of the watch = $1.4x \times 0.9$
 \therefore Profit = $1.4x \times 0.9 - x$
 $= 1.26x - x = 0.26x$
 Tax on profit = $0.26x \times 0.1 = 0.026x$
 $\therefore 0.26x - 0.026x = 468$
 $\Rightarrow x = 2000$.

Bookmark

Answer key/Solution

FeedBack

Q.77

x, y, z are real numbers greater than 1 and w is a positive real number. If $\log_x w = 24$, $\log_y w = 40$ and $\log_{xyz} w = 12$, find the value of $\log_z w$.

Solution:

Correct Answer : 60

$$\log_{xyz} w = 12$$

$$\Rightarrow \log_w xyz = \frac{1}{12}$$

Similarly,

$$\log_w x = \frac{1}{24} \text{ and } \log_w y = \frac{1}{40}$$

Now,

$$\log_w x + \log_w y + \log_w z = \frac{1}{12}$$

$$\Rightarrow \frac{1}{24} + \frac{1}{40} + \log_w z = \frac{1}{12}$$

$$\Rightarrow \log_w z = \frac{1}{12} - \frac{1}{40} - \frac{1}{24}$$

$$\Rightarrow \log_w z = \frac{10 - 3 - 5}{120} = \frac{1}{60}$$

$$\therefore \log_z w = 60.$$

FeedBack

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Answer key/Solution

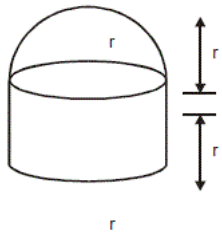
Q.78

A building consists of a hemispherical dome on the top of a cylindrical wall. The outer radii of the dome and the cylindrical wall, and the height of the wall are all equal to 7 m. What is the cost (in Rs.) of painting the outer surface of the building at the rate of Rs.20 per square meter?

Solution:

Correct Answer : 12320

As the radius of the dome is equal to that of the cylinder



$$\therefore \text{Outer surface area} = 2\pi r^2 + 2\pi r^2 = 4\pi r^2$$

The cost (in Rs.) of painting

$$= 4 \times \frac{22}{7} \times 7^2 \times 20 = 12320$$

Q.79

A is 20% more efficient than B and takes 40 days less than what B takes to complete a particular job. B is 50% more efficient than C. On the same job, A works for 50 days and quits, then B takes over and works for 120 days and quits. C completed the remaining work. Find the number of days taken by C to complete the remaining work.

Solution:**Correct Answer : 90**

	A	B
Efficiency	6x	5x
Time reqd.	5t	6t

$$6t - 5t = 40$$

$$\Rightarrow 5t = 200 \text{ and } 6t = 240$$

	B	C
Efficiency	3y	2y
Time reqd.	2z	3z
	240	360

	A	B	C
Time reqd.	200	240	360
Days worked	50	120	
Work done	1/4	1/2	

C has to complete $\frac{1}{4}$ of the work.
Hence C works for 90 days.

Q.80

What is the least number of complete years in which a sum of money at 20% compound interest will be more than doubled?

1 ☐ 72 ☐ 63 ☐ 54 ☐ 4**Solution:****Correct Answer : 4**

Let the principal be Rs. x and the number of years be n . Then,

$$2x \leq x \left(1 + \frac{20}{100} \right)^n \Rightarrow 2 \leq \left(\frac{6}{5} \right)^n$$

When $n = 4$,

$$\left(\frac{6}{5} \right)^n = \left(\frac{6}{5} \right)^4 = 2.0736$$

$$\Rightarrow 2 < \left(\frac{6}{5} \right)^4$$

$\therefore n = 4$ is correct.

FeedBack

Q.81
On a flat part of the earth a monorail is built between two towns 20 km apart, using one metal rail bar. By accident the bar is made one metre longer and the contractor decides to lift it in the middle in order to make the ends fit. Approximately how high does he have to lift it in the middle?

1 ☐ 1 cm

2 ☐ 1 m

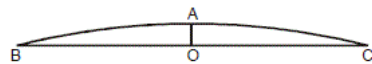
3 ☐ 10 m

4 ☐ 100 m

Solution:

Correct Answer : 4

Let BC be the rail bar and lifted at point O.



$$BO = 10000 \text{ m}$$

$$BA = 10000.5 \text{ m}$$

$$OA \approx \sqrt{\{(10000.5)^2 - (10000)^2\}} = \sqrt{(20000.5 \times 0.5)}$$

$$= \sqrt{10000.25} \approx 100 \text{ m}$$

FeedBack

Bookmark

Answer key/Solution

Q.82
A large cube is made up of n^3 smaller identical cubes such that number of cubes not visible from outside is more than one third of the cubes used. What is the least value of n^3 ?

Solution:

Correct Answer : 343

Number of identical cubes required to make a large

Cube = n^3

Number of identical cubes not visible = $(n - 2)^3$

$$(n - 2)^3 > \frac{1}{3} [n^3]$$

$$\text{If } n = 6, (4)^3 < [216/3]$$

$$\text{If } n = 7, (5)^3 > [343/3]$$

FeedBack

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Answer key/Solution

Q.83
A hare and a tortoise decide to run around a lake but instead of running in the same direction they decide to run in opposite directions. Each of them chooses a distinct convenient starting point. The hare meets the tortoise at a certain oak tree for the first time. The second time, they meet at a neem tree and the third time at a mango tree. The fourth time, the hare meets the tortoise exactly at the oak tree, where they meet for the first time. Which of the following statements is true? (Assume that neither of them rests after the start and that they run at constant speeds).

1 ☐ One of them runs three times as fast as the other.

2 ☐ One of them is half as fast as the other.

3 ☐ One of them is six times as fast as the other.

4 ☐ The starting points and starting times are required to comment about the ratio of their speeds.

Solution:

Correct Answer : 2

When the ratio of the speed of the two objects running in opposite direction around a circular track is $a : b$, The number of distinct points along the track at which they meet is $a + b$ (where a, b must be coprime). Now the fourth time they meet at oak tree again, its means they are meeting at three distinct points. Hence $a + b = 3$ or we can say the ratio of speed is $1 : 2$ or $2 : 1$.
∴ Only choice (2) is right.

Alternative method:

Going by the options.

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Answer key/Solution

Q.84

In a garden there are 360 plants, planted in rows with the same number of plants in each row. The number of flowers on every plant of a row is the square of the row number. If the total number of flowers is 13,860, find the number of rows?

Solution:

Correct Answer : 10

Let the number of rows be k and number of plants in each row be n . So given $kn = 360$.
Also, in row one, each plant will have 1^2 flowers. Thus the number of trees in this row is $1^2 \times n$.
In row two, each plant will have 2^2 flowers. Thus the number of trees in this row is $2^2 \times n$.

Similarly,
In k^{th} row, each plant will have k^2 flowers. Thus number of trees in this row is $k^2 \times n$.
∴ $n(1^2 + 2^2 + 3^2 + \dots + k^2) = 13860$
⇒ $nk(k+1)(2k+1)/6 = 13860$
⇒ $360 (k+1)(2k+1)/6 = 13860$
⇒ {as $nk = 360$ }
⇒ $(k+1)(2k+1) = 231 = 11 \times 21$
⇒ $k = 10$

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Answer key/Solution

Q.85

Find the number of whole numbers less than 100 such that the sum of the factorials of its digit(s) is less than or equal to the number?

1 ☐ 18

2 ☐ 19

3 ☐ 21

4 ☐ 17

Solution:

Correct Answer : 2

Since the sum of the factorials of the digits should be less than or equal to the number and less than 100, the number cannot possibly contain digits which are greater or equal to 5, as for $n \geq 5$; $n! \geq 120$.

The following numbers satisfy the given condition:
1, 2, 10, 11, 12, 13, 20, 21, 22, 23, 30, 31, 32, 33, 34, 40, 41, 42, 43.

Hence, 19 such numbers exist.

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Answer key/Solution

Q.86

The sum of the smallest angle in a triangle and 7 times the second smallest angle equals 120° . The largest angle in the triangle cannot be less than

1 ☐ 130°

2 ☐ 140°

3 ☐ 150°

4 ☐ 160°

Solution:

Correct Answer : 3

Let the angles in ascending order be x° , y° and z° (i.e., $x < y < z$)
 Now, $x + 7y = 120$.
 As $x < y$ and $x + 7y = 120$, y is always greater than 15.
 So, let $y = 15 + k$ (where $k > 0$) $\Rightarrow x = 15 - 7k$
 $\Rightarrow x + y = 30 - 6k$ and $z = 150 + 6k$.
 $\therefore z$ cannot be less than 150°

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🔍 Answer key/Solution

Q.87

A function is defined as $f(x) = ax^2 + bx + c$. If $f(-2) < 4$, $f(2) > -4$ and $f(3) < -11$, then which of the following is always true?

1 ☐ $a < -2$

2 ☐ $a < -1$

3 ☐ $a > 1$

4 ☐ $a > 2$

Solution:

Correct Answer : 2

Given $f(x) = ax^2 + bx + c$.
 For $x = -2$, $f(-2) = 4a - 2b + c < 4$... (1)
 For $x = 2$, $f(2) = 4a + 2b + c > -4$
 i.e., $-4a - 2b - c < 4$... (2)
 For $x = 3$, $f(3) = 9a + 3b + c < -11$... (3)
 Adding the inequalities (1) and (2):
 $-4b < 8$ i.e.; $b > -2$.
 Adding the inequalities (2) and (3):
 $\therefore 5a < -7 - b$ i.e., $5a < -5$ (Because $b > -2$)
 $\therefore a < -1$.

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🔍 Answer key/Solution

Q.88

The number of sides of a regular polygon is $2n$, where n is natural number. If the area of the polygon is twice the product of the length of the side and the distance between two opposite sides, then the number of sides in the polygon is

1 ☐ 4

2 ☐ 8

3 ☐ 6

4 ☐ 10

Solution:

Correct Answer : 2

The area (A) of regular polygon with $2n$ sides (each of length a) is $(2n)\left(\frac{ap}{2}\right)$, where p is the perpendicular distance of each side from the centre.
 i.e. $A = nap$ and given that $A = 2a(2p)$.
 $\therefore n = 4$ and the number of sides of the polygon is 8.

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🔍 Answer key/Solution

Q.89

N is a three-digits natural number. When N is divided by 7 and 5 leave a remainder of 2 in each case. How many values can N assume?

Solution:

🔖 Bookmark

Correct Answer : 26

The required numbers are of the form $k \text{ LCM}(5, 7) + 2$, i.e., $35k + 2$. For $k = 1$ and 2 , we get only 2-digit numbers i.e., 37, 72 and for $k = 29$, we get $29(35) + 2 = 1017$, a 4-digit number. Therefore there are $(28 - 2)$ or 26 numbers of the required kind.

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Q.90

All the terms of an Arithmetic Progression are natural numbers. If the ratio of the sum of the first seven terms to that of the first eleven terms is 6 : 11 and the seventh term lies in between 130 and 140, then the common difference of the Progression is

1 ☐ 72 ☐ 83 ☐ 94 ☐ 10**Solution:****Correct Answer : 3**

$$S_7 = \frac{7}{2}[2a + (7-1)d] = \frac{7}{2}[2a + 6d] = 7a + 21d$$

$$S_{11} = \frac{11}{2}[2a + (11-1)d] = \frac{11}{2}[2a + 10d] = 11a + 55d$$

$$\frac{S_7}{S_{11}} = \frac{6}{11} = \frac{(7a + 21d)}{(11a + 55d)}$$

$$\Rightarrow a = 9d$$

$$\text{Now, } 130 < a + 6d < 140;$$

$$\Rightarrow 130 < 15d < 140$$

Only one such d is possible and that is 9. (since the numbers in A.P. are natural numbers)

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Q.91

All the words of length 10 letters are formed using the alphabets A to J. Let x be the number of words in which no letter is repeated and y be the number of words in which exactly one letter appears

twice. Find the value of $\frac{y}{9x}$.

Solution:**Correct Answer : 5**

$$x = 10! \text{ (permutations of 10 items in 10 spaces)}$$

For y ,

Let us choose 1 letter to be repeated. This can be done in ${}^{10}C_1$ ways. Now, we have to select 8 of the remaining 9 letters (total 10 are needed and 1 is repeating). This can be done in 9C_8 . After this, we have to arrange these 10 in 10 places which can be

done in $\frac{10!}{2!}$ ways as one letter is repeating.

$$\therefore y = {}^{10}C_1 \times {}^9C_8 \times \frac{10!}{2!}$$

$$\text{Therefore, } \frac{y}{9x} = 5.$$

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Q.92

At the end of 2015, Kiran was half the age of his grandfather. The sum of years in which they were born was 3895. The age (in years) of Kiran at the end of 2017 will be

1 ☐ 37

2 ☐ 433 ☐ 474 ☐ 51**Solution:****Correct Answer : 3**

Let the age of Grandfather at the end of 2015 be $2k$
 \therefore Year of Birth of Grandfather = $2015 - 2k$
 Also, age of Kiran at the end of 2015 be k
 \therefore Year of birth of Kiran = $2015 - k$
 Now, $2015 - 2k + 2015 - k = 3895$
 i.e., $4030 - 3k = 3895 \Rightarrow k = 45$
 \therefore At the end of 2017 Kiran will be 47 year old.

Q.93

The difference between the product of the first 20 positive even integers and the product of the first 20 positive odd integers is a multiple of

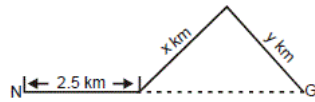
1 ☐ 212 ☐ 413 ☐ 394 ☐ All of the three**Solution:****Correct Answer : 4**

$2 \times 4 \times 6 \times \dots \times 40 - 1 \times 3 \times 5 \times 7 \times \dots \times 39$
 $20! \times 2^{20} - 1 \times 3 \times 5 \times \dots \times 39$
 as $20!$ is multiple of 21 and 39 so the difference will be multiple of 21 and 39.
 Let $x = 41$
 Now, $(x-1)(x-3)\dots(x-39) - 1 \times 3 \times 5 \times 7 \times \dots \times 39$
 $= (xf(x) + 1 \times 3 \times 5 \times 7 \times \dots \times 39) - 1 \times 3 \times 5 \times 7 \times \dots \times 39$
 $= xf(x)$, where $f(x)$ is a polynomial in variable x .
 The given expression is divisible by x which is actually 41 as per our assumption.
 Hence the difference is divisible by all the three.

Q.94

Nadia walks along a route that goes directly from her house (N) to her Grandmother's house (G). Some of this path is on level ground, and some part of it is either downhill or uphill. Nadia walks on the level ground at 5 km/h, walks uphill at 4 km/h, and walks downhill at 6 km/h. It takes Nadia 1 hour and 36 minutes to walk from N to G and 1 hour and 39 minutes to walk from G to N. If 2.5 km of the path between N and G is level ground, the distance between N and G is closest to

1 ☐ 8.0 km2 ☐ 8.2 km3 ☐ 8.1 km4 ☐ 7.9 km**Solution:****Correct Answer : 4**



$$\frac{2.5}{5} + \frac{x}{4} + \frac{y}{6} = \frac{96}{60} \quad \dots (1)$$

$$\frac{2.5}{5} + \frac{x}{6} + \frac{y}{4} = \frac{99}{60} \quad \dots (2)$$

Adding (1) + (2),

$$10(x + y) = 54$$

$$x + y = 5.4$$

$$\text{Total distance} = 2.5 + 5.4 = 7.9 \text{ km.}$$

FeedBack

Q.95

Two containers A and B contain oil. From A, 60% of oil is transferred to B. Then, 50% of oil from B is transferred to Container A. After these operations, volume of oil in the containers A and B are in the ratio 11 : 7. Find the ratio of initial volume of oil in container A to that of B.

1 ☐ 2 : 3

2 ☐ 5 : 4

3 ☐ 4 : 5

4 ☐ 3 : 2

Solution:

Correct Answer : 2

	Container A	Container B
Original	10a	10b
1st Transfer	$10a - 6a = 4a$	$10b + 6a$
2nd Transfer	$7a + 5b$	$5b + 3a$

$$\therefore \frac{7a + 5b}{5b + 3a} = \frac{11}{7}$$

$$\Rightarrow 33a + 55b = 49a + 35b$$

$$\Rightarrow 16a = 20b$$

$$\Rightarrow \frac{a}{b} = \frac{5}{4}$$

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Answer key/Solution

Q.96

If $A_1, A_2, A_3, \dots, A_{13}$ are in Arithmetic Progression such that $A_1 + A_7 + A_{13} = 12$, find the maximum value of product of $(A_1 \times A_2 \times A_3 \times \dots \times A_{13})$

1 ☐ 4^{11}

2 ☐ 2^{26}

3 ☐ 52^{13}

4 ☐ 13^{52}

Solution:

Correct Answer : 2

Bookmark

Answer key/Solution

$$S_{13} = \frac{13}{2} [A_1 + A_{13}]$$

$$= \frac{13}{2} [2a + 12d] = 13[a + 6d]$$

$$A_1 + A_7 + A_{13} = a + a + 6d + a + 12d$$

$$= 3a + 18d = 3(a + 6d) = 12$$

$$a + 6d = \frac{12}{3} = 4$$

$a + 6d$ is AM of $A_1, A_2, A_3, \dots, A_{13}$

A.M \geq G.M. the max G.M. is obtained when A.M. = G.M.

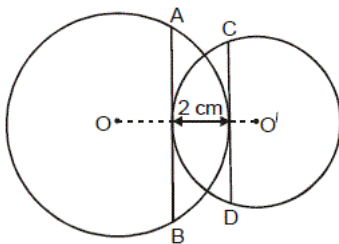
$$4 = (A_1 \times A_2 \times \dots \times A_{13})^{\frac{1}{13}}$$

$$\Rightarrow (A_1 A_2 A_3 \dots A_{13}) = 4^{13} = 2^{26}.$$

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Q.97

Two circles with diameters 16 cm and 8 cm overlap as shown below in the figure, where O and O' are center of the circles. What is the ratio of areas of triangles AO'B and COD?



1 ☐ $\sqrt{3} : \sqrt{7}$

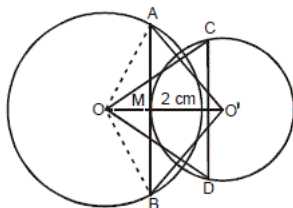
2 ☐ $\sqrt{12} : \sqrt{7}$

3 ☐ $\sqrt{7} : \sqrt{12}$

4 ☐ $\sqrt{7} : \sqrt{3}$

Solution:

Correct Answer : 3



In $\triangle AOM$,
 $(AO)^2 - (OM)^2 = AM^2$
 $\Rightarrow 64 - 36 = AM^2$

$$\Rightarrow AM = 2\sqrt{7}$$

$$\Rightarrow AB = 4\sqrt{7}$$

Similarly, In $\triangle CO'D$, $CD = 4\sqrt{3}$

$$\text{Area of } \triangle AO'B = \frac{1}{2} \times 4\sqrt{7} \times 4 \text{ cm}^2$$

$$\text{Area of } \triangle COD = \frac{1}{2} \times 8 \times 4\sqrt{3} \text{ cm}^2$$

Hence, the required ratio is $\sqrt{7} : 2\sqrt{3}$ or $\sqrt{7} : \sqrt{12}$.

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Answer key/Solution

Q.98

If $p^3 + q^3 + r^3 = 48$, $pqr = 16$, find the value of $\frac{p^2 + q^2 + r^2}{pq + qr + rp}$.

- 1 ☐ 1
- 2 ☐ -2
- 3 ☐ 1 or -2
- 4 ☐ 2 or 1

Solution:

Correct Answer : 3

As $p^3 + q^3 + r^3 - 3pqr = 0$,
 $p + q + r = 0$... (I)
 $\Rightarrow p^2 + q^2 + r^2 = -2(pq + qr + rp)$
 or $p^2 + q^2 + r^2 = pq + rp + qr$... (II)

Using (I), $\frac{p^2 + q^2 + r^2}{pq + qr + rp} = -2$

Using (II), $\frac{p^2 + q^2 + r^2}{pq + qr + rp} = 1$.

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Answer key/Solution

Q.99

If $x + y + z = 10$, where x, y and z are non negative integers and z is even find the number of solution of the equation.

Solution:

Correct Answer : 36

$x + y + z = 10$
 z is even means z can be 0, 2, 4, 6, 8, 10
 If z is 0, then $x + y = 10$. This has ${}^{10+2-1}C_{2-1} = 11$
 If z is 2, then $x + y = 8$. This has ${}^8C_1 = 9$
 If z is 4, then $x + y = 6$. This has ${}^6C_1 = 7$
 If z is 6, then $x + y = 4$. This has ${}^4C_1 = 5$
 If z is 8, then $x + y = 2$. This has ${}^2C_1 = 3$
 If z is 10, then $x + y = 0$. This has only 1 way.
 Total = $11 + 9 + 7 + 5 + 3 + 1 = 36$ ways.

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Answer key/Solution

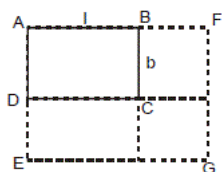
Q.100

When each side of a rectangle is increased to k times the original length, the area of rectangle thus formed is 300% more than the area of the original rectangle. Find the value of k .

- 1 ☐ 2
- 2 ☐ $\sqrt{3}$
- 3 ☐ $\frac{1+\sqrt{7}}{2}$
- 4 ☐ $\frac{\sqrt{5}-1}{2}$

Solution:

Correct Answer : 1



$AF = EG = kl$
 $AD = FG = kb$
 Area of the new figure $AEFG = (kl)(kb)$
 or $4lb = (kl)(kb)$
 Solving, we get $k = 2$

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Answer key/Solution

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