



## Flexi Mock CAT - 13 (2020)

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VARC

DILR

QA

## Sec 1

**Direction for questions (1-5):** Read the given passage and answer the questions that follow.

ARHGAP11B, a gene found only in humans, is known for its role in expanding neocortex, the part of the brain responsible for higher cognitive functions such as language and planning. In experiments detailed in a new study published in the journal Science, researchers inserted the gene into the fetuses of marmosets, who, like humans, are primates, but don't carry the gene. The team found that after 101 days, the neocortices of the monkeys' developing brains were larger and had more folds in the tissue than normal monkey fetuses without the gene.

Having more folds in this part of the brain is important because those folds increase the surface area available for brain cells, or neurons, without making the brain too big for the skull. Demonstrating that the human gene fulfills a similar purpose in the brain of another primate provides new insight into how humans may have evolved and may point the way to future treatments for brain disease.

The ARHGAP11B gene appeared about 5 million years ago, not long after the evolutionary split between chimpanzee and human ancestors. It emerged via mutation when another gene, ARHGAP11A, was copied, or duplicated. However, the 5-million-year-old version of ARHGAP11B, known as the "ancestral B" version, isn't the one that humans have today. Scientists think another mutation of ARHGAP11B occurred in human ancestors between 1.5 million and 500,000 years ago, creating the human-specific gene the researchers used in their latest study.

"That human-specific sequence is absolutely essential for the ability of the gene to amplify the relevant brain stem cells in development," says Wieland Huttner of the Max Planck Institute of Molecular Cell Biology, one of the study's authors.

Previous studies showed similar effects in mice and ferrets modified to have the "new B" version of the gene. However, using those animal models meant the gene was not necessarily expressed in the same way it is in humans. Study author Michael Heide, also of the Max Planck Institute, says the team wanted to study a model organism closely related to humans, and the two most practical options were the marmoset and the macaque.

"We thought that the marmoset would be the better model because the macaque neocortex has many features that it shares with our big and folded neocortex. However, the marmoset is smooth and very small in size." Thus, any changes to the size and shape of the marmoset neocortex would be easy to see.

To introduce the gene into monkey embryos, the researchers used a "lentivirus," a virus carrier that cannot replicate. The lentivirus contained ARHGAP11B as well as a protein marker that would allow the researchers to see where that gene was expressed. They included a promoter gene, or a DNA sequence that regulates expression of specific genes.

Debra Silver, an investigator at the Duke University Institute for Brain Sciences, says the researchers' methods in this study, improved from those used with mice and ferrets, lend a lot of weight to the significance of the results. "One of the challenges [for this kind of study] is you can have abnormally high levels [of expression]. It's like taking a Mack truck to drive something versus something subtler like a Toyota. The idea is, with this they're trying to get closer to what would be normally expressed in the human brain.

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#### **Q.1 [11594329]**

Which of the following best explains the purpose of "neocortex" as used in the passage?

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1 ☐ It increases the surface area available for brain cells and neurons.

2 ☐ It increases more folds in the tissue of the developing brain.

3 ☐ It helps in the development of human brain.

4 ☐ It is responsible for language and planning.



 Answer key/Solution

Bookmark

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## Q.2 [11594329]

Which of the following statements, if true, could be seen as not contradicting the arguments in the passage?

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1 ☐ The marmoset is thought to be less preferred model for study than the macaque.

2 ☐ The emergence of the ARHGAP11B happened following the evolutionary split between chimpanzee and human ancestors.

3 ☐ ARHGAP11B was a result of mutation when ARHGAP11A was copied but there was no mutation when ARHGAP11B was copied.

4 ☐ In laboratory experiments ARHGAP11A is introduced into monkey embryos.



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### Q.3 [11594329]

All of the following are true about "ancestral B version" except:

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1 ☐ It emerged 1.5 million and 500,000 years ago.

2 ☐ It is the other name for ARHGAP11B.

3 ☐ It is not the gene that humans have today.

4 ☐ It is a 5-million-year-old version of ARHGAP11B.



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#### **Q.4 [11594329]**

More 'folds in neocortex of the human brain' helps:

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1 ☐ researchers to understand the evolution of human brain and look for the best treatment of brain diseases.

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2 ☐ to increase the memory.

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3 ☐ to fight diseases that affect the human brain.

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4 ☐ to increase the surface area available for brain cells, or neurons, without making the brain too big for the skull.

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#### **Q.5 [11594329]**

According to the passage, the reason for the preference of marmoset over macaque as a model for study is:

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- 1 ☐ because it is closely related to humans.
- 2 ☐ because it has a smaller body and brain.
- 3 ☐ because it has a more developed brain.
- 4 ☐ because macaque brain has been already studied extensively.

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Trump's character flaws suddenly loom larger for voters. "For a long time, it was annoying but it didn't necessarily change anything in their lives—I wish he'd stop tweeting, but the economy's good," says Lanae Erickson, senior vice president at the center-left think tank Third Way, which commissioned polls and focus groups of thousands of voters in suburban swing districts. "What this has done is to put the perception they already had about Trump together with real, horrific impacts on them and their family and their country."

Asked an open-ended question about Trump's vision for the country, about half the respondents in Third Way's surveys volunteered "self-serving" or "divisive." Respondents also rejected his calls for "law and order" in response to street protests. Asked who is hurt by Trump's vision, 30% of undecided suburban voters said "all of us." "It used to be people would say LGBT people, or women, or people of color," Erickson says. "Now, 4% say immigrants, 6% say minorities—but 30% say all of us."

Some focus-group participants were asked what they were looking for in the election. They had to choose from multiple defined criteria and sub-criteria. The responses were heavy on three leadership qualities: people yearned for someone who was strong, compassionate, and listened to experts. People agreed that Trump was strong (and questioned Biden's strength) but rated the President abysmally on the other two when compared to Biden.

Just as Trump's worst qualities were magnified, Biden's strengths suddenly seem matched to the moment. When he announced his candidacy a year ago, he said he was compelled to run by Trump's equivocal response to Charlottesville. Some Democrats criticized his mantra of a "battle for the soul of the nation" as too puffy or vague at a time when his rivals were pumping out ambitious left-wing policy proposals. But a character-based campaign, tinged with nostalgia, now looks not just prescient but essential, whether or not you believe Biden has what it takes to deliver on it.

Trump's campaign insists he is positioned for victory despite the headwinds. Public polls are undercounting Republicans, says Miller, the Trump political adviser, and the President's supporters are more enthusiastic about voting by a 2-to-1 ratio. "Are people going to stand in line for two hours to vote for someone they're not enthusiastic about?" he asks. But analysts in both parties are skeptical. "Overwhelmingly, voters believe the pandemic and the resulting economic meltdown are the most important issues facing the country," says GOP pollster Whit Ayres. "Efforts to change the subject might work with people who are already in favor of the President, but there's no evidence they're working with the people who need to be brought into his coalition if he's going to win." [...]

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#### **Q.6 [11594329]**

Which of the following, if true, would most weaken the soundness of the evidence cited in Para 3 to show people's dissatisfaction with Trump?

1 ☐ Even when asked about Biden's vision for the country, about half the respondents in Third Way's surveys said "self-serving" or "divisive".

2 ☐ Centre-left think tanks like Third Way are already critical of Trump's vision for the country.

3 ☐ The surveyed districts have recently seen a massive influx of LGBT people and people of colour, and by "all of us", the respondents meant the people of their district.

4 ☐ Asking open ended questions in the survey method of data collection is not as effective as asking closed-ended questions in many situations.



 Answer key/Solution

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### Q.7 [11594329]

Which of the following, if true about the focus group mentioned in Para 4, would most help Joe Biden to use its results to his advantage?

1 ☐ The definitions of various leadership qualities provided to the participants were very elementary in nature, and they rated strictly based on these definitions.

2 ☐ The definition of a strong leader provided to the participants did not match with the way most of the US public defines a strong leader.

3 ☐ A comparative analysis of Trump's and Biden's ratings revealed that the gap between their ratings on the three leadership qualities mentioned was very high.

4 ☐ All the participants came from suburban swing districts and were mostly women.



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### Q.8 [11594329]

Which of the following can be inferred from Para 2?

- 1 ☐ The American voters care primarily about the economy.
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2 ☐ The Coronavirus pandemic has revealed character flaws of Trump that are having an adverse impact on American citizens.

3 ☐ The flaws of a politician can become more glaring for voters when their lives are affected by those flaws.

4 ☐ American voters do not find something flawed unless their life is impacted by that flaw.



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Some focus-group participants were asked what they were looking for in the election. They had to choose from multiple defined criteria and sub-criteria. The responses were heavy on three leadership qualities: people yearned for someone who was strong, compassionate, and listened to experts. People agreed that Trump was strong (and questioned Biden's strength) but rated the President abysmally on the other two when compared to Biden.

Just as Trump's worst qualities were magnified, Biden's strengths suddenly seem matched to the moment. When he announced his candidacy a year ago, he said he was compelled to run by Trump's equivocal response to Charlottesville. Some Democrats criticized his mantra of a "battle for the soul of the nation" as too puffy or vague at a time when his rivals were pumping out ambitious left-wing policy proposals. But a character-based campaign, tinged with nostalgia, now looks not just prescient but essential, whether or not you believe Biden has what it takes to deliver on it.

Trump's campaign insists he is positioned for victory despite the headwinds. Public polls are undercounting Republicans, says Miller, the Trump political adviser, and the President's supporters are more enthusiastic about voting by a 2-to-1 ratio. "Are people going to stand in line for two hours to vote for someone they're not enthusiastic about?" he asks. But analysts in both parties are skeptical. "Overwhelmingly, voters believe the pandemic and the resulting economic meltdown are the most important issues facing the country," says GOP pollster Whit Ayres. "Efforts to change the subject might work with people who are already in favor of the President, but there's no evidence they're working with the people who need to be brought into his coalition if he's going to win." [...]

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### Q.9 [11594329]

According to the passage, which of the following issues has not acquired a new urgency in the light of the pandemic?

1 ☐ Social safety net

---

2 ☐ Health care

---


3 ☐ Law and order

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4 ☐ Inequality



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 Answer key/Solution

Bookmark

FeedBack

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

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It was thanks to this influx from French and Latin that English acquired the likes of *fundamental*, *definition* and *conclusion*. These words feel sufficiently English to us today, but when they were new, many persons of letters in the 1500s (and beyond) considered them irritatingly pretentious and intrusive, as indeed they would have found the phrase 'irritatingly pretentious and intrusive'. But language tends not to do what we want it to. The die was cast: English had thousands of new words competing with native English words for the same things. One result was triplets allowing us to express ideas with varying degrees of formality. *Help* is English, *aid* is French, *assist* is Latin. Or, *kingly* is English, *royal* is French, *regal* is Latin – note how one imagines posture improving with each level.

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**Q.10 [11594329]**

With respect to the influx of words from Norse and the influx of words from French and Latin, the statement that is least likely to be true is

- 1 ☐ the former happened earlier than the latter, and the latter happened later than the former.
- 2 ☐ the former resulted in doublets, and the latter resulted in doublets and triplets.
- 3 ☐ the former resulted in a simplification of grammar, while the latter reversed that.
- 4 ☐ the former was an influx into Old English, while the latter was an influx into English.

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

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### Q.11 [11594329]

The reason for English not to have crazy genders is

- 
- 1 ☐ the Scandies did not bother with genders, and their impact on the language caused that.
- 
- 2 ☐ the French and the Normans added a firehose spray of words that removed the genders.
- 
- 3 ☐ the Scandies followed the lead of the Celts, rendering the language in whatever way seemed most natural to them.
- 
- 4 ☐ the lofty Latinates did not use crazy genders and this was the main reason.
- 

 Answer key/Solution

Bookmark

FeedBack

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### Q.12 [11594329]

The passage uses an example with corresponding words in multiple languages in which of the following ways?



---

1 ☐ An English / French / Latin triplet to show these as better languages than English.

---

2 ☐ An English / French / Latin triplet to show the impact of culinary transformations.

---

3 ☐ A Viking / Celt doublet to show the impact of conjugation.

---

4 ☐ An English / French doublet to show how class distinction can have an impact.

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 Answer key/Solution

Bookmark

FeedBack

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### Q.13 [11594329]

The effect of having thousands of new words competing for native English words for the same things is that

- 
- 1 ☐ it helps in simplifying grammar by allowing use of appropriate words.
- 
- 2 ☐ the ideas can be expressed with varying degrees of formality.
- 
- 3 ☐ they are less dramatic, but fun nevertheless.
- 
- 4 ☐ they stake the language with 'We're here, too' signs, matching native words with equivalent ones.
- 

 Answer key/Solution

Bookmark

FeedBack

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#### Q.14 [11594329]

Of all the influences on the English and the Old English language, it is correct to say that

- 
- 1 ☐ the Vikings were similar in their influence to the Celts, in that they rendered the language in a way that seemed most natural to them.
- 
- 2 ☐ the Norse influenced the language after the French had influenced it, but before Latin had influenced it.
- 
- 3 ☐ apart from English, French and Latin triplets, we also have Norse, Celt and English triplets.
- 
- 4 ☐ ending a sentence with a preposition is incorrect in today's English due to the influence of various factors.
- 

 **Answer key/Solution**

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FeedBack

**Direction for questions (15-18):** Read the given passage and answer the questions that follow.

Ingrid Persaud's novel "Love After Love" follows the story of Trinidadian Betty Ramdin, who has suffered for years at the hands of her husband, an abusive drunk. Widowhood is Betty's respite. Following her husband's death, she takes in a lodger, Mr Chetan, a profoundly decent man who becomes Betty's best friend as well as a father figure to her young son, Solo. They settle into a platonic partnership – cooking, gardening and raising Solo – creating a family as an antidote to their own unyielding loneliness.

Persaud has a knack for finding the sublime in the ordinary: in her hands the quotidian details of even apparently "small" lives lead to flashes of pure truth. The story is recounted through a series of tender, amusing vignettes, with Betty, Chetan and Solo taking turns at the narration. The prose is playful and rhythmic, seeming to beat its own drum, so that at times you don't read the novel so much as *hear* it. You sit in its company while it takes you into its confidence.

Persaud plays with time as well as language, sometimes flitting over years in one paragraph, sometimes lingering forensically on a single episode. This feels slightly dizzying to begin with but serves to draw us into a deeper intimacy with the characters, as if we have indeed born witness to a large span of their lives. When one evening Betty and Chetan are overheard by Solo spilling their deepest secrets to each other over glasses of rum, we feel a deep cut of grief at the way the revelations shatter their slapdash little family, causing Solo to flee to New York, where he is an illegal immigrant caught in a web of black-market fraudsters in his hunt for a fake social security number. Betty is left to grapple with a long, bitter estrangement from her son, even as she's tormented by the after-effects of an abusive marriage.

Meanwhile, Chetan, driven by the realisation that "Miss B and I needed to be free to meet other people otherwise it was like we were in a sexless marriage", becomes distracted by yearning for his first love Mani, with whom he reconnects via social media only to be envious of the contentment he's found with his husband. It's our unfolding awareness of the unyielding direction of Chetan's desires – jolting him into "3am awakenings" and filling him with "fear, anticipation and horniness" – that sinks in deep. Persaud achieves an impeccable calibration here: the contentment of Chetan's happy domestic life with Betty chafing against his acute loneliness as a gay man in a community where "simply being me is illegal, immoral and perverted".

One of the reasons *Love After Love* is so delightful is that it reads like a modern meditation on the different kinds of love as catalogued by the ancient Greeks, crossed with the characters' deliciously gossipy self-reflection. Persaud gives us a captivating interrogation of love in all its forms, how it heals and how it harms, the twists and torments of obsession (*mania*), sex and romance (*eros*), family (*storge*), friendship (*philia*), acceptance or rejection by the community, and so on. But much like the Derek Walcott poem from which it takes its title, the novel is ultimately concerned with the possibilities of that elated and oddly elegiac moment when we finally come to love ourselves.

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**Q.15 [11594329]**

In the second paragraph, which one of these can replace the word "sublime"?

1 ☐ awe-inspiring

2 ☐ complete

3 ☐ unthinkable

---

4 ○ quotidian



 Answer key/Solution

Bookmark

FeedBack

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**Q.16 [11594329]**

In the fourth paragraph, what does the author mean by Persaud achieving an "impeccable calibration"?

- 1 ☐ Persaud has seamlessly depicted the existence of two contradictory emotional states - a happy sense of intimacy and an unhappy sense of isolation – through the story of Chetan.
- 2 ☐ The nuanced resentment displayed by Chetan's character against the domesticity imposed on him by Betty.
- 3 ☐ Persaud has made a political point through the depiction of the personal.



4 ☐ Persaud has managed to find extraordinary stories of ordinary human beings.



 Answer key/Solution

Bookmark

FeedBack

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Ingrid Persaud's novel "Love After Love" follows the story of Trinidadian Betty Ramdin, who has suffered for years at the hands of her husband, an abusive drunk. Widowhood is Betty's respite. Following her husband's death, she takes in a lodger, Mr Chetan, a profoundly decent man who becomes Betty's best friend as well as a father figure to her young son, Solo. They settle into a platonic partnership – cooking, gardening and raising Solo – creating a family as an antidote to their own unyielding loneliness.

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Persaud plays with time as well as language, sometimes flitting over years in one paragraph, sometimes lingering forensically on a single episode. This feels slightly dizzying to begin with but serves to draw us into a deeper intimacy with the characters, as if we have indeed born witness to a large span of their lives. When one evening Betty and Chetan are overheard by Solo spilling their deepest secrets to each other over glasses of rum, we feel a deep cut of grief at the way the revelations shatter their slapdash little family, causing Solo to flee to New York, where he is an illegal immigrant caught in a web of black-market fraudsters in his hunt for a fake social security number. Betty is left to grapple with a long, bitter estrangement from her son, even as she's tormented by the after-effects of an abusive marriage.

Meanwhile, Chetan, driven by the realisation that "Miss B and I needed to be free to meet other people otherwise it was like we were in a sexless marriage", becomes distracted by yearning for his first love Mani, with whom he reconnects via social media only to be envious of the contentment he's found with his husband. It's our unfolding awareness of the unyielding direction of Chetan's desires – jolting him into "3am awakenings" and filling him with "fear, anticipation and horniness" – that sinks in deep. Persaud achieves an impeccable calibration here: the contentment of Chetan's happy domestic life with Betty chafing against his acute loneliness as a gay man in a community where "simply being me is illegal, immoral and perverted".

One of the reasons *Love After Love* is so delightful is that it reads like a modern meditation on the different kinds of love as catalogued by the ancient Greeks, crossed with the characters' deliciously gossipy self-reflection. Persaud gives us a captivating interrogation of love in all its forms, how it heals and how it harms, the twists and torments of obsession (*mania*), sex and romance (*eros*), family (*storge*), friendship (*philia*), acceptance or rejection by the community, and so on. But much like the Derek Walcott poem from which it takes its title, the novel is ultimately concerned with the possibilities of that elated and oddly elegiac moment when we finally come to love ourselves.

### Q.17 [11594329]

Why has the author referenced the themes of ancient Greek literature (eros, philia etc.)?

- 1 ☐ To emphasize the themes of friendship and love that pervade this novel.
- 2 ☐ To connect it to the source of the title of the novel – a poem by Derek Walcott, who was deeply interested in Greek epics.

3 ☐ To highlight all the different expressions and forms taken by love – as found in ancient Greek literature and present in this contemporary novel.

4 ☐ To outline the fact that Persaud intended this to be a meditation on love, history and politics.

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

**Direction for questions (15-18):** Read the given passage and answer the questions that follow.

Ingrid Persaud's novel "Love After Love" follows the story of Trinidadian Betty Ramdin, who has suffered for years at the hands of her husband, an abusive drunk. Widowhood is Betty's respite. Following her husband's death, she takes in a lodger, Mr Chetan, a profoundly decent man who becomes Betty's best friend as well as a father figure to her young son, Solo. They settle into a platonic partnership – cooking, gardening and raising Solo – creating a family as an antidote to their own unyielding loneliness.

Persaud has a knack for finding the sublime in the ordinary: in her hands the quotidian details of even apparently "small" lives lead to flashes of pure truth. The story is recounted through a series of tender, amusing vignettes, with Betty, Chetan and Solo taking turns at the narration. The prose is playful and rhythmic, seeming to beat its own drum, so that at times you don't read the novel so much as *hear* it. You sit in its company while it takes you into its confidence.

Persaud plays with time as well as language, sometimes flitting over years in one paragraph, sometimes lingering forensically on a single episode. This feels slightly dizzying to begin with but serves to draw us into a deeper intimacy with the characters, as if we have indeed born witness to a large span of their lives. When one evening Betty and Chetan are overheard by Solo spilling their deepest secrets to each other over glasses of rum, we feel a deep cut of grief at the way the revelations shatter their slapdash little family, causing Solo to flee to New York, where he is an illegal immigrant caught in a web of black-market fraudsters in his hunt for a fake social security number. Betty is left to grapple with a long, bitter estrangement from her son, even as she's tormented by the after-effects of an abusive marriage.

Meanwhile, Chetan, driven by the realisation that "Miss B and I needed to be free to meet other people otherwise it was like we were in a sexless marriage", becomes distracted by yearning for his first love Mani, with whom he reconnects via social media only to be envious of the contentment he's found with his husband. It's our unfolding awareness of the unyielding direction of Chetan's desires – jolting him into "3am awakenings" and filling him with "fear, anticipation and horniness" – that sinks in deep. Persaud achieves an impeccable calibration here: the contentment of Chetan's happy domestic life with Betty chafing against his acute loneliness as a gay man in a community where "simply being me is illegal, immoral and perverted".

One of the reasons *Love After Love* is so delightful is that it reads like a modern meditation on the different kinds of love as catalogued by the ancient Greeks, crossed with the characters' deliciously gossipy self-reflection. Persaud gives us a captivating interrogation of love in all its forms, how it heals and how it harms, the twists and torments of obsession (*mania*), sex and romance (*eros*), family (*storge*), friendship (*philia*), acceptance or rejection by the community, and so on. But much like the Derek Walcott poem from which it takes its title, the novel is ultimately concerned with the possibilities of that elated and oddly elegiac moment when we finally come to love ourselves.

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**Q.18 [11594329]**

Which one of these is close to the author's understanding of love and literature?

- 1 ☐ It is not possible to find love in the modern world.
  - 2 ☐ The novel's prose is monotonous in most places and especially jarring in a few places.
  - 3 ☐ Love and envy cannot co-exist as depicted in Chetan's journey to find love and acceptance.
-

4 ☐ Loving others can bring us closer to loving ourselves and this possibility is one of the highlights of the novel.

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

### Q.19 [11594329]

**Directions for question (19):** The four sentences (labelled 1, 2, 3, and 4) given in this question, when properly sequenced, form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence of four numbers as your answer.

1. It's a sensation designed to tell you that something's gone wrong.
2. But being in pain, says Colin Klein, a philosopher at the Australian National University, is a bit like having your house guarded by a hyperactive terrier.
3. Sometimes it barks at trespassers, but other times it gets upset at the postman.
4. Pain is your body's alarm system.

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**Q.20 [11594329]**

**Directions for question (20):** The four sentences (labelled 1, 2, 3, and 4) given in this question, when properly sequenced, form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence of four numbers as your answer.

1. Democrats knew Donald Trump was unlikely to be convicted by a Republican Senate when they launched impeachment proceedings; that he would erroneously claim, as he has done, “full exoneration”; and that he would use the case to fire up his base
2. Not all battles are fought in the belief that they will be won. Some are fought in the belief that conceding in advance would be even worse.
3. Yet a refusal to impeach him would itself have damaged the country’s constitutional protections; and a president who knew he would never face impeachment would likely be as emboldened as the one who has faced it down
4. He may feel he is indestructible, as his lie-packed State of the Union address followed by his buoyant, bizarre, rambling speech about the “evil” process suggests.

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.21 [11594329]**

**Directions for question (21):** Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

1. A caddy does the heavy lifting, and he can easily be instructed to maintain a two-arm distance.
2. And it is, both in its origins and at its core, an isolationist exclusivist enterprise
3. There are those with high-speed internet and friends across the world, who can catch up over video chat
4. Vast tracts of land are devoted to this pastime, and an unconscionable amount of resources – both monetary and ecological – are spent to create the illusion of Scottish moors
5. Unlike, say, football – entertainment for the masses, continuation of war by other means, modern gladiatorial contest – there is little chance of physical contact among golfers.

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

**Q.22 [11594329]**

**Directions for question (22):** The four sentences (labelled 1, 2, 3, and 4) given in this question, when properly sequenced, form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence of four numbers as your answer.

1. First, that “it conquers all” and second, that it is independent of social hierarchies and all the little choices about inclusion and exclusion that people are forced to make.
2. In Shubh Mangal Zyada Savdhaan – the first mainstream Bollywood film that portrays a passionate, much in love gay couple, struggling to be accepted by a small-town, conservative upper caste family – both these lies are exposed.
3. There are two lies that the mass media has peddled about love.
4. In doing so, the film has managed to give us a new kind of fairy-tale romance.

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.23 [11594329]**

**Directions for question (23):** Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

1. Asked why Britain struggles so badly at the Eurovision song contest, Abba’s Björn Ulvaeus made it sound simple in a recent interview.
2. The BBC, which both screens the event and presides over the selection of the UK entry, has decided this year that enough is enough.
3. It was, he said, a question of finding “the right songwriters”.
4. Yes indeed
5. But what might seem straightforward for Mr Ulvaeus has become horribly complicated for the United Kingdom, which has underperformed in the competition to a startling degree for more than 20 years.

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**Q.24 [11594329]**

**Directions for question (24):** The passage given below is followed by four summaries. Choose the option that best captures the author's position.

For centuries, European Jews were falsely accused of poisoning wells during wars, epidemics or civic unrest. Late 18th century Paris, a witness to deep polarisation along class lines, was replete with the rumour that the rich had distributed lethal, contaminated flour to the poor. It is no surprise then that during the current COVID-19 pandemic, the rumour mill has Muslims deliberately throwing infected Rs.2,000 notes on the road or Muslim street vendors spitting on vegetables and fruits. Periods of social stress or natural disasters are fertile ground for rumours, which not only spread like wildfire but have grave consequences — scapegoating, social boycott, violence and arson, even lynching and murder.

- 1 ☐ Fake rumours have always been spread during times of social distress or natural disasters.
- 2 ☐ Centuries of experience shows that rumours in times of social distress are not a unique thing and can have severe consequences.
- 3 ☐ It is not surprising to see that during the epidemic, rumours related to the Muslim community have been spreading like wildfire.
- 4 ☐ Certain communities have always been the target of rumours and alienation during times of distress and this has had grave consequences.

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.25 [11594329]**

**Directions for question (25):** Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

1. A domestic abuse incident is reported every minute.
2. From 2014-17, 73% of victims of domestic violence were female, while for domestic homicides 97% of female victims and 61% of male victims were killed by men
3. Yet where is the public outcry?
4. Shamefully, the ravages of austerity have put many more women at risk, closing refuges, slashing legal aid, axing specialist domestic abuse services
5. Where is the national demand for a sharp reversal?





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## Sec 2

**Directions for questions 26 to 29:** Answer the questions on the basis of the information given below.

Abhishek, Bharti, Kiran, and Satendar were the four corona positive patients in a COVID-19 hospital. Ashok, Bidhan, Sandeep, and Shikha were the four doctors who personally examine the patients. Each patient had to take two tests- Viral Test and Antibody Test – which were prescribed by different doctors. Four patients took the Viral Test prescribed by different doctors. None of the patients took the Antibody Test before the Viral Test. The patients were prescribed the Antibody Tests in the same order as the Viral Tests. It is also known that:

- (i) Abhishek was examined first; and he was examined by Dr. Bidhan.
- (ii) The tests prescribed by Dr. Ashok were done consecutively. The number of tests between the tests prescribed by each of the remaining doctors was the same.
- (iii) Kiran was examined last; and he was examined by Dr. Sandeep.
- (iv) No doctor who examined Abhishek, examined Bharti.
- (v) No doctor who examined Kiran, examined Satendar.

### Q.26 [11594329]

The 7th test was prescribed by:

1 ☐ Dr. Shikha

2 ☐ Dr. Ashok

3 ☐ Dr. Bidhan

4 ☐ Dr. Sandeep

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**Directions for questions 26 to 29:** Answer the questions on the basis of the information given below.

Abhishek, Bharti, Kiran, and Satendar were the four corona positive patients in a COVID-19 hospital. Ashok, Bidhan, Sandeep, and Shikha were the four doctors who personally examine the patients. Each patient had to take two tests- Viral Test and Antibody Test – which were prescribed by different doctors. Four patients took the Viral Test prescribed by different doctors. None of the patients took the Antibody Test before the Viral Test. The patients were prescribed the Antibody Tests in the same order as the Viral Tests. It is also known that:

- (i) Abhishek was examined first; and he was examined by Dr. Bidhan.
- (ii) The tests prescribed by Dr. Ashok were done consecutively. The number of tests between the tests prescribed by each of the remaining doctors was the same.
- (iii) Kiran was examined last; and he was examined by Dr. Sandeep.
- (iv) No doctor who examined Abhishek, examined Bharti.
- (v) No doctor who examined Kiran, examined Satendar.

**Q.27 [11594329]**

Which of the following is correct?

- 1 ☐ The 2nd test was prescribed by Dr. Sandeep.
- 2 ☐ The 3rd test was prescribed by Dr. Shikha.
- 3 ☐ The 3rd test was prescribed by Dr. Sandeep.
- 4 ☐ The 2nd test was prescribed by Dr. Ashok.



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**Directions for questions 26 to 29:** Answer the questions on the basis of the information given below.

Abhishek, Bharti, Kiran, and Satendar were the four corona positive patients in a COVID-19 hospital. Ashok, Bidhan, Sandeep, and Shikha were the four doctors who personally examine the patients. Each patient had to take two tests- Viral Test and Antibody Test – which were prescribed by different doctors. Four patients took the Viral Test prescribed by different doctors. None of the patients took the Antibody Test before the Viral Test. The patients were prescribed the Antibody Tests in the same order as the Viral Tests. It is also known that:

- (i) Abhishek was examined first; and he was examined by Dr. Bidhan.
- (ii) The tests prescribed by Dr. Ashok were done consecutively. The number of tests between the tests prescribed by each of the remaining doctors was the same.
- (iii) Kiran was examined last; and he was examined by Dr. Sandeep.
- (iv) No doctor who examined Abhishek, examined Bharti.
- (v) No doctor who examined Kiran, examined Satendar.

**Q.28 [11594329]**

Which pair of tests were prescribed by the same doctor?

1 ☐ The 2nd and the 8th

2 ☐ The 4th and the 5th

3 ☐ The 1st and the 5th

4 ☐ The 3rd and the 7th



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**Directions for questions 26 to 29:** Answer the questions on the basis of the information given below.

Abhishek, Bharti, Kiran, and Satendar were the four corona positive patients in a COVID-19 hospital. Ashok, Bidhan, Sandeep, and Shikha were the four doctors who personally examine the patients. Each patient had to take two tests- Viral Test and Antibody Test – which were prescribed by different doctors. Four patients took the Viral Test prescribed by different doctors. None of the patients took the Antibody Test before the Viral Test. The patients were prescribed the Antibody Tests in the same order as the Viral Tests. It is also known that:

- (i) Abhishek was examined first; and he was examined by Dr. Bidhan.
- (ii) The tests prescribed by Dr. Ashok were done consecutively. The number of tests between the tests prescribed by each of the remaining doctors was the same.
- (iii) Kiran was examined last; and he was examined by Dr. Sandeep.
- (iv) No doctor who examined Abhishek, examined Bharti.
- (v) No doctor who examined Kiran, examined Satendar.

**Q.29 [11594329]**

Which of the following is incorrect?

- 1 ☐ Kiran did not take any test prescribed by Dr. Shikha.
- 2 ☐ Bharti did not take any test prescribed by Dr. Ashok.
- 3 ☐ Abhishek did not take any test prescribed by Dr. Sandeep.
- 4 ☐ Satendar did not take any test prescribed by Dr. Bidhan.



[Answer key/Solution](#)

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**Directions for questions 30 to 33:** Answer the questions on the basis of the information given below.

In an organisation, there are a total of 250 employees, out of which no employee has an annual salary package of more than Rs. 16 lacs and no employee has a total work experience of more than 14 years. A questionnaire is conducted by an outside agency, to know about the Happiness Index (HI) of the employees of the organisation, in which no employee scored more than 90. Following tables give additional information about the employees.

Annual salary package (in Lacs of Rs.)	Number of employees
$\leq 4$	60
$\leq 6$	102
$\leq 8$	134
$\leq 10$	175
$\leq 12$	198
$\leq 14$	226
$\leq 16$	250

Total work experience (in years)	Number of employees
$\leq 2$	50
$\leq 4$	90
$\leq 6$	134
$\leq 8$	165
$\leq 10$	200
$\leq 12$	235
$\leq 14$	250

Happiness Index (HI) score	Number of employees
$\leq 15$	25
$\leq 30$	58
$\leq 45$	95
$\leq 60$	132
$\leq 70$	178
$\leq 80$	210
$\leq 90$	250

**Note:** For any employee, more his total work experience, more would be his annual salary package and less would be his Happiness Index (HI) score.

**Q.30 [11594329]**

How many employees have total work experience of less than or equal to 10 years but annual salary package of more than Rs.10 lakhs?

1 ☐ 37

2 ☐ 25

3 ☐ 19

4 ☐ 26

 Answer key/Solution

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**Directions for questions 30 to 33:** Answer the questions on the basis of the information given below.

In an organisation, there are a total of 250 employees, out of which no employee has an annual salary package of more than Rs. 16 lacs and no employee has a total work experience of more than 14 years. A questionnaire is conducted by an outside agency, to know about the Happiness Index (HI) of the employees of the organisation, in which no employee scored more than 90. Following tables give additional information about the employees.

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$\leq 60$	132
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$\leq 80$	210
$\leq 90$	250

**Note:** For any employee, more his total work experience, more would be his annual salary package and less would be his Happiness Index (HI) score.

**Q.31 [11594329]**

How many employees have annual salary package of less than or equal to Rs.8 lakhs and Happiness Index score of less than or equal to 60?

1 ☐ 16

2 ☐ 19

3 ☐ 17

4 ☐ 23

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In an organisation, there are a total of 250 employees, out of which no employee has an annual salary package of more than Rs. 16 lacs and no employee has a total work experience of more than 14 years. A questionnaire is conducted by an outside agency, to know about the Happiness Index (HI) of the employees of the organisation, in which no employee scored more than 90. Following tables give additional information about the employees.

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$\leq 15$	25
$\leq 30$	58
$\leq 45$	95
$\leq 60$	132
$\leq 70$	178
$\leq 80$	210
$\leq 90$	250

**Note:** For any employee, more his total work experience, more would be his annual salary package and less would be his Happiness Index (HI) score.

### Q.32 [11594329]

How many employees have total work experience of more than 2 years and Happiness Index (HI) score of more than 70 but annual salary package of less than or equal to Rs.12 Lakhs?

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**Directions for questions 30 to 33:** Answer the questions on the basis of the information given below.

In an organisation, there are a total of 250 employees, out of which no employee has an annual salary package of more than Rs. 16 lacs and no employee has a total work experience of more than 14 years. A questionnaire is conducted by an outside agency, to know about the Happiness Index (HI) of the employees of the organisation, in which no employee scored more than 90. Following tables give additional information about the employees.

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Happiness Index (HI) score	Number of employees
$\leq 15$	25
$\leq 30$	58
$\leq 45$	95
$\leq 60$	132
$\leq 70$	178
$\leq 80$	210
$\leq 90$	250

**Note:** For any employee, more his total work experience, more would be his annual salary package and less would be his Happiness Index (HI) score.

### Q.33 [11594329]

How many employees have total work experience of more than 2 years but less than or equal to 4 years and Happiness Index score of more than 30 but less than or equal to 70?

 Answer key/Solution

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**Directions for questions 34 to 36:** Answer the questions on the basis of the information given below.

Ramu is playing with his lego blocks, which are small unbreakable cubical toy blocks. Ramu combines  $N$  lego blocks all white in colour and constructs a bigger block which is also a cube. He paints at least 2 of the faces with red colour. Keerthi, who was Ramu's niece, was playing with it when she accidentally dropped it. The big cube shattered into  $N$  smaller cubes (the original white cubes).

**Q.34 [11594329]**

Keerthi found that out of the  $N$  pieces, 210 of them had no painted faces. How many blocks had only one painted surface?

1 ☐ 126

2 ☐ 143

3 ☐ 119

4 ☐ Data insufficient

 Answer key/Solution

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**Directions for questions 34 to 36:** Answer the questions on the basis of the information given below.

Ramu is playing with his lego blocks, which are small unbreakable cubical toy blocks. Ramu combines  $N$  lego blocks all white in colour and constructs a bigger block which is also a cube. He paints at least 2 of the faces with red colour. Keerthi, who was Ramu's niece, was playing with it when she accidentally dropped it. The big cube shattered into  $N$  smaller cubes (the original white cubes).

**Q.35 [11594329]**

Which of the following cannot be the number of coloured blocks that Keerthi found, if it is known that not more than 3 faces were coloured by Ramu?

1 ☐ 90

2 ☐ 98

3 ☐ 61

4 ☐ 190

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

**Directions for questions 34 to 36:** Answer the questions on the basis of the information given below.

Ramu is playing with his lego blocks, which are small unbreakable cubical toy blocks. Ramu combines  $N$  lego blocks all white in colour and constructs a bigger block which is also a cube. He paints at least 2 of the faces with red colour. Keerthi, who was Ramu's niece was playing with it when she accidentally dropped it. The big cube shattered into  $N$  smaller cubes (the original white cubes).

**Q.36 [11594329]**

Ramu coloured 3 faces of a  $10 \times 10 \times 10$  cube, which of the following is not possible?

- 1 ☐ Keerthi found 720 blocks with no coloured face.
- 2 ☐ Keerthi found 729 blocks with no coloured face.
- 3 ☐ Keerthi found 280 blocks with no coloured face.
- 4 ☐ Keerthi found 271 blocks that had at least one coloured face.

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**Directions for questions 37 to 39:** Answer the questions on the basis of the information given below.

The Rapid Metro in Gurgaon stops at exactly six intermediate stations- A, B, C, D, E, and F- in that order between its originating station and destination station. At each of the intermediate stations, twice as many people get in as that of those get down. The numbers of people getting down at the intermediate stations are all prime numbers, one each between 0 and 10, 10 and 20, 20 and 30, 30 and 40, 40 and 50, 50 and 60, in the order of the stations given above. The absolute difference between the number of people getting in at any two consecutive intermediate stations is at least 20. The total number of passengers getting down at all the intermediate stations together is an even number. Also, no person gets in and gets down at the same station.

**Q.37 [11594329]**

Which of the following cannot be the number of people getting down at any intermediate station?

- 1 ☐ 47

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2 ☐ 3

---

3 ☐ 17

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4 ☐ 23

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 Answer key/Solution

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**Directions for questions 37 to 39:** Answer the questions on the basis of the information given below.

The Rapid Metro in Gurgaon stops at exactly six intermediate stations- A, B, C, D, E, and F- in that order between its originating station and destination station. At each of the intermediate stations, twice as many people get in as that of those get down. The numbers of people getting down at the intermediate stations are all prime numbers, one each between 0 and 10, 10 and 20, 20 and 30, 30 and 40, 40 and 50, 50 and 60, in the order of the stations given above. The absolute difference between the number of people getting in at any two consecutive intermediate stations is at least 20. The total number of passengers getting down at all the intermediate stations together is an even number. Also, no person gets in and gets down at the same station.

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**Q.38 [11594329]**

What is the minimum number of people with which the metro starts from its originating station?

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1 ☐ 10

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2 ☐ 11

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3 ☐ 3

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4 ☐ 8

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 Answer key/Solution

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**Directions for questions 37 to 39:** Answer the questions on the basis of the information given below.

The Rapid Metro in Gurgaon stops at exactly six intermediate stations- A, B, C, D, E, and F- in that order between its originating station and destination station. At each of the intermediate stations, twice as many people get in as that of those get down. The numbers of people getting down at the intermediate stations are all prime numbers, one each between 0 and 10, 10 and 20, 20 and 30, 30 and 40, 40 and 50, 50 and 60, in the order of the stations given above. The absolute difference between the number of people getting in at any two consecutive intermediate stations is at least 20. The total number of passengers getting down at all the intermediate stations together is an even number. Also, no person gets in and gets down at the same station.

**Q.39 [11594329]**

If the metro starts from its originating station with the minimum number of people possible, then what is the number of people in the metro when it reaches its destination station?

1 ☐ 185

2 ☐ 192

3 ☐ 190

4 ☐ 195

 Answer key/Solution

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

Five female students have appeared for their class 10th board exams having 5 subjects with each subject having maximum marks of 100. None of the students has scored equal to the maximum marks. For every subject, passing marks is 45%. Following table gives us the partial information about the marks obtained by the students.

Students	Mathematics	Science	English	Social Science	Hindi	Total
Riya	75	50	75			
Alia						345
Anu						
Jia	94		90	80		
Preet	60				96	
Total	337			336	404	

- In one of the subjects, the marks scored by Preet is a perfect square while in another, it is a perfect square as well as a perfect cube.
- Marks scored by Alia in each subject is a prime number. Preet has scored the minimum in Science among the girls.
- Anu has scored 70% marks overall with equal marks in English and Hindi (which is not a perfect square). She has got different marks in the remaining subjects all being a perfect square of a natural number.
- Alia's marks in Hindi is 8 more than that in English and her marks in Science is 6 more than that in Social Science.
- The average of Riya's marks in Social Science and Hindi is 65 whereas Jia's average marks in all five subjects is 80.
- Preet's highest marks is in Hindi and Alia is the highest scorer in Hindi among the five girls.
- Anu's highest marks is in Science. None of the girls failed in any of the subjects.
- Riya's marks in Hindi is 10 more than her marks in Social Science.

#### Q.40 [11594329]

Find the marks scored by Preet in Science.



[Answer key/Solution](#)

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

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- Preet's highest marks is in Hindi and Alia is the highest scorer in Hindi among the five girls.
- Anu's highest marks is in Science. None of the girls failed in any of the subjects.
- Riya's marks in Hindi is 10 more than her marks in Social Science.

#### Q.41 [11594329]

Find the absolute difference between the marks scored by Jia in Hindi and the marks scored by Anu in Social Science.

1 ☐ 0

2 ☐ 1

3 ☐ 2

4 ☐ 4



[Answer key/Solution](#)

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

Five female students have appeared for their class 10th board exams having 5 subjects with each subject having maximum marks of 100. None of the students has scored equal to the maximum marks. For every subject, passing marks is 45%. Following table gives us the partial information about the marks obtained by the students.

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Anu						
Jia	94		90	80		
Preet	60				96	
Total	337			336	404	

- In one of the subjects, the marks scored by Preet is a perfect square while in another, it is a perfect square as well as a perfect cube.
- Marks scored by Alia in each subject is a prime number. Preet has scored the minimum in Science among the girls.
- Anu has scored 70% marks overall with equal marks in English and Hindi (which is not a perfect square). She has got different marks in the remaining subjects all being a perfect square of a natural number.
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- Preet's highest marks is in Hindi and Alia is the highest scorer in Hindi among the five girls.
- Anu's highest marks is in Science. None of the girls failed in any of the subjects.
- Riya's marks in Hindi is 10 more than her marks in Social Science.

#### Q.42 [11594329]

Find the total marks scored by all the five girls in English.

[Answer key/Solution](#)

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

Five female students have appeared for their class 10th board exams having 5 subjects with each subject having maximum marks of 100. None of the students has scored equal to the maximum marks. For every subject, passing marks is 45%. Following table gives us the partial information about the marks obtained by the students.

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Riya	75	50	75			
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Jia	94		90	80		
Preet	60				96	
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- The average of Riya's marks in Social Science and Hindi is 65 whereas Jia's average marks in all five subjects is 80.
- Preet's highest marks is in Hindi and Alia is the highest scorer in Hindi among the five girls.
- Anu's highest marks is in Science. None of the girls failed in any of the subjects.
- Riya's marks in Hindi is 10 more than her marks in Social Science.

#### Q.43 [11594329]

Find the sum of marks scored by Anu, Alia, and Riya in Social Science.



[Answer key/Solution](#)

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**Directions for questions 44 to 46:** Answer the questions on the basis of the information given below.

Three persons – Bhokali, Munia, and Shasha were playing a certain number of hands of Poker – a game of cards. In each hand, one of the 3 persons wins and no hand can end in a draw. In the first 3 hands that they played, the first was won by Bhokali, the second was won by Shasha and the third was won by Munia. They decided to stop playing as soon as any of the following three events occurred:

- (i) The number of hands won by Shasha is more than the number of hands won by the other two.
- (ii) The number of hands won by Munia is twice the number of hands won by any one of the other two.
- (iii) The number of hands won by Bhokali is thrice the number of hands won by any one of the other two.

**Q.44 [11594329]**

If they stopped playing after the 10th hand, which was won by Munia, then who won the least number of hands?

- 1 ☐ Shasha
- 2 ☐ Bhokali
- 3 ☐ Both Shasha and Bhokali won equal number of hands.
- 4 ☐ Cannot be determined

 Answer key/Solution

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**Directions for questions 44 to 46:** Answer the questions on the basis of the information given below.

Three persons – Bhokali, Munia, and Shasha were playing a certain number of hands of Poker – a game of cards. In each hand, one of the 3 persons wins and no hand can end in a draw. In the first 3 hands that they played, the first was won by Bhokali, the second was won by Shasha and the third was won by Munia. They decided to stop playing as soon as any of the following three events occurred:

- (i) The number of hands won by Shasha is more than the number of hands won by the other two.
- (ii) The number of hands won by Munia is twice the number of hands won by any one of the other two.
- (iii) The number of hands won by Bhokali is thrice the number of hands won by any one of the other two.

**Q.45 [11594329]**

If they stopped playing after 15 hands, who won the 6th hand?

- 1 ☐ Bhokali
- 2 ☐ Shasha
- 3 ☐ Munia

4 ☐ Cannot be determined

 Answer key/Solution

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**Directions for questions 44 to 46:** Answer the questions on the basis of the information given below.

Three persons – Bhokali, Munia, and Shasha were playing a certain number of hands of Poker – a game of cards. In each hand, one of the 3 persons wins and no hand can end in a draw. In the first 3 hands that they played, the first was won by Bhokali, the second was won by Shasha and the third was won by Munia. They decided to stop playing as soon as any of the following three events occurred:

- (i) The number of hands won by Shasha is more than the number of hands won by the other two.
- (ii) The number of hands won by Munia is twice the number of hands won by any one of the other two.
- (iii) The number of hands won by Bhokali is thrice the number of hands won by any one of the other two.

**Q.46 [11594329]**

Which of the following could not be the total number of hands played if Bhokali won the last hand?

1 ☐ 11

2 ☐ 12

3 ☐ 13

4 ☐ 14

 Answer key/Solution

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## Sec 3

**Q.47 [11594329]**

A and B working together can complete a job in a certain number of days. A alone takes 24 days more than the number of days taken by A and B together to complete the job, while B alone takes 6 days more than the number of days taken by A and B together to complete the job. How many days would A alone take to complete the job?

[Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.48 [11594329]**

Find the value of  $\left[ \frac{3}{4} \times \frac{8}{9} \times \frac{15}{16} \times \frac{24}{25} \times \dots \times \frac{2499}{2500} \right]$ .

1 ☐  $\frac{51}{50}$

2 ☐  $\frac{51}{100}$

3 ☐  $\frac{51}{120}$

4 ☐  $\frac{51}{200}$

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

For an upcoming sale, store managers must assemble 280 displays in four hours. They assemble 20% of the displays during the first hour and 50% of the remaining displays during the second hour. If in fourth hour they assemble 25% of what was remaining after second hour, then what percent of the total displays was assembled in the third hour?

1 ☐ 30

2 ☐ 27.5

3 ☐ 38.5

4 ○ 32


[🔍 Answer key/Solution](#)
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**Q.50 [11594329]**

OPQ is a quadrant of a circle with center O and radius 3 cm. If R and S are two points on OP and OQ, respectively, such that  $OR : RS = 3 : 5$  and the area of triangle ORS is one-third of that of the quadrant OPQ, then find the length (in cm) of OS.

1 ○  $2\left(\frac{\pi}{2}\right)^{1/2}$

2 ○  $\left(\frac{\pi}{2}\right)^{1/2}$

3 ○  $2\left(\frac{\pi}{6}\right)^{1/2}$

4 ○  $\left(\frac{\pi}{3}\right)^{1/2}$

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

Given that  $f(A \times B) = f(A) + f(B) - 3$ , where A and B are natural numbers. If  $f(4) = 11$  and  $f(3) = 4$ , then the value of  $f(216)$  is



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

A wholesaler of mangoes offers 1 kg of mangoes free for every 15 kg purchased by the retailer. In addition, there is a discount of 10% on the marked price of the mangoes. A retailer purchases 15 kg of mangoes and sells everything at the marked price to a customer. Find his profit%.

1 ☐  $16\frac{2}{3}\%$

2 ☐ 15%

3 ☐  $18\frac{14}{27}\%$

4 ☐ None of these

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

If  $k$  be a real number and the roots of the equation  $x(x - 8) - 4\log_3 k = 0$  are real and equal, then  $k$  is

1 ☐  $1/81$

2 ☐  $1/27$

3 ☐  $1/9$

4 ☐  $1/3$

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

**Q.54 [11594329]**

If  $2^{x+y} = 10$ ,  $2^{y+z} = 20$  and  $4^{2z-x} = 60$ , where  $x$ ,  $y$ , and  $z$  are any three real numbers, then what is the value of  $2z$ ?

1 ☐  $\log_2 15$

2 ☐  $\log_4 15$

3 ☐  $2 \log_2 15$

4 ☐  $2 \log_4 15 + 1$

 Answer key/Solution

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**Q.55 [11594329]**

A square is inscribed inside circle C1 of radius 1 unit while the same square circumscribes circle C2. An equilateral triangle is inscribed inside circle C2. What is the ratio of areas of the equilateral triangle to that of the square?

1 ☐  $3\sqrt{3} : 4$

2 ☐  $3\sqrt{3} : 1$

3 ☐  $9 : 16$

4 ☐  $3\sqrt{3} : 16$

 Answer key/Solution

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**Q.56 [11594329]**

Of 40 players in a sports academy, whoever plays Badminton also plays Lawn Tennis. But no one plays Badminton and Volleyball, 8 players play Lawn Tennis and Volleyball. All the players play at least one of the three games and the number of players who play exactly one of the three is more than the number who play more than one of the three. If at least 4 players play Badminton, then what are the maximum and minimum number of players who could play Volleyball only?

1 ☐ 32, 02 ☐ 28, 03 ☐ 24, 44 ☐ 26, 2[🔍 Answer key/Solution](#)

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**Q.57 [11594329]**

Three actors Akki, Sonu, and Bobby donate 10%, 8% and 6% of their salary to the Covid relief fund respectively. The salary of Akki and Sonu is same whereas the difference between their donations is Rs. 5,020. The sum of the donations of Akki and Sonu is Rs. 6,300 more than Bobby's donation. The total donation is what percentage of the total salary?

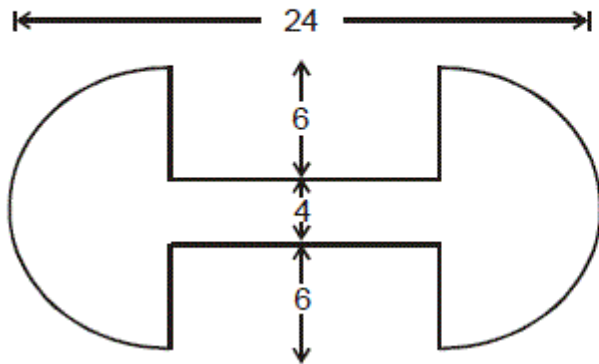
1 ☐ 8.33%2 ☐ 7.30%3 ☐ 9.27%4 ☐ 5.62%[🔍 Answer key/Solution](#)

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**Q.58 [11594329]**

A dumbbell has a shape and dimensions as shown in the figure. The two ends are hemispherical and the bar where we hold it is cylindrical. Find the total surface area of the dumbbell.

1 ☐  $420\pi$ 2 ☐  $408\pi$ 3 ☐  $416\pi$ 4 ☐  $480\pi$ 
[Answer key/Solution](#)

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**Q.59 [11594329]**

$P = |x + 11| + |x + 6| + |x - 4| + |x - 20|$ . If  $x$  is an integer, then for how many values of  $x$  would 'P' attain its minimum value?

☒
[Answer key/Solution](#)

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**Q.60 [11594329]**

A sum of money triples itself in 4 years and 2 months under a certain rate of simple interest. If the rate of interest is halved and charged as compound interest per annum, then in approximately, how many years the same initial sum doubles itself?

1 ☐ 62 ☐ 43 ☐ 24 ☐ 5[🔍 Answer key/Solution](#)

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**Q.61 [11594329]**

If  $9^{\log_8 1a} = 243^{\log_{27} b} = 81^{\log_3 c}$ , then find the value of  $12 \log_b ac$ .

1 ☐ 902 ☐ 453 ☐ 604 ☐ 30[🔍 Answer key/Solution](#)

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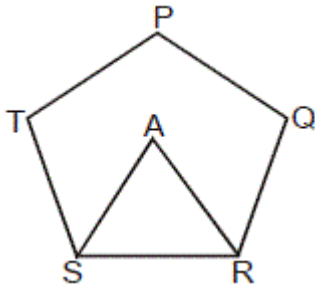
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**Q.62 [11594329]**

The distance (in metres) to which Jai can throw a stone is inversely proportional to the square of its weight (in kg). For his convenience he breaks the stone into 3 pieces whose weights are in ratio of 2 : 1 : 3. Jai, then threw the stone one by one and the sum of the distances they cover is 49 m. To what distance (in metres) can he throw the unbroken stone?

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**Q.63 [11594329]**

PQRST is a regular polygon. If ASR is an equilateral triangle, then find the value of angle TAQ (in degrees).


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**Q.64 [11594329]**

To complete a certain work, Akshay would take four times as long as Farhan and Raju take together and Raju takes thrice as long as Akshay and Farhan take together. The three men working together can complete the work in 5 days. How long would Farhan take alone to complete the same work?

1 ☐ 10 days

2 ☐ 9 days

3 ☐  $9\frac{1}{11}$  days

4 ☐  $11\frac{1}{9}$  days

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.65 [11594329]**

The average age of a man and his only daughter exceeds the average of the ages of his wife and his daughter by 12.5%. If the age of his daughter is 20 years less than the age of his wife whose age is 15 years less than his age, then find the age (in years) of his daughter.

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.66 [11594329]**

The consumption of petrol per hour by Rob's car varies directly with the square of its speed. When the car is travelling at 40 km/hr the consumption is 1 litre per hour. If each litre cost Rs. 40 and other expenses also cost Rs. 40 per hour, then what is the minimum expenditure (in Rs.) required to travel a distance of 400 km?

1 ☐ 12002 ☐ 4003 ☐ 8004 ☐ 1000[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)

**Q.67 [11594329]**

In the finale round of the beauty contest held at Mumbai, where the two female candidates were contesting, 20% of the audience did not vote due to some reasons, and 80 votes recorded were declared invalid. The winning candidate won the contest by 480 votes and it was found that she had been supported by 50% of the whole audience present. Which of the following is the number of valid votes cast?

1 ☐ 15352 ☐ 17303 ☐ 15204 ☐ 1365[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.68 [11594329]**

Let  $f(x) = 3x^2$  and  $g(x) = 4^x$ , for all real values of  $x$ . Then the value of  $f(f(g(x)) + g(f(x)) + g(g(x)) + f(f(x)))$  at  $x = 1$  is

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.69 [11594329]**

Find the value of  $p$ , if the line  $x + 3y - 2 - 2p(3x - 2y + 4) = 0$  is parallel to  $x$  axis.

1 ☐  $1/3$ 2 ☐  $2/3$ 3 ☐  $1/6$ 4 ☐  $-\frac{1}{6}$

[🔍 Answer key/Solution](#)[Bookmark](#)[FeedBack](#)**Q.70 [11594329]**

If  $3^{2z+3} - 10 \times 3^{z+1} = -3$ , then which of the following is true?

1 ☐ z is always a positive value.

2 ☐ z is always a negative value.

3 ☐ z can either be positive value or a negative.

4 ☐ z is always a non-positive value.

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